

INDEX: VOLUME 51 (1976)

Articles, Commentaries, and Lead Reviews are identified as such; all other entries refer to book reviews. Most book reviews are entered both by title and by author or editor; reviews of symposium volumes, however, are entered by editor and also listed under Symposia by key word in the title.

A

- Abeywickrama, B. A. (ed.), *Flora of Ceylon*, Vol. 1, Pt. 1, 136.
- Abramoff, P., and R. G. Thomson, *An Experimental Approach to Biology*, 2nd ed., 422
- Academy of Sciences of the Azerbaijan SSR, *The Biological Resources of Inland Aquatic Azerbaijan*, 551
- Actinomyces: *Filamentous Bacteria*, by J. M. Slack and M. A. Gerencser, 123
- Ada, G. L. (ed.), *Contemporary Topics in Molecular Immunology*, Vol. 3, 204
- Adler, H. E., *Fish Behavior: Why Fishes Do What They Do*, 553
- Advances in Agronomy, ed. by N. C. Brady, Vol. 26, 318
- Advances in Biophysics, ed. by M. Kotani, Vol. 7—1975, 474
- Advances in Cancer Research, ed. by G. Klein and S. Weinhouse, Vol. 21—1975, 353; Vol. 22—1975, 471
- Advances in Cell and Molecular Biology, ed. by E. J. DuPraw, Vol. 3—1974, 115
- Advances in Clinical Chemistry, ed. by O. Bodansky and A. L. Latner, Vol. 18—1976, 470
- Advances in Comparative Physiology and Biochemistry, ed. by O. Lowenstein, Vol. 6, 344
- Advances in Cyclic Nucleotide Research, ed. by P. Greengard and G. A. Robison, Vol. 6, 300
- Advances in Enzyme Regulation, ed. by G. Weber, Vol. 11, 198
- Advances in Immunology, ed. by F. J. Dixon and H. G. Kunkel, Vol. 20, 204; Vol. 21, 352; Vol. 22, 469
- Advances in Insect Physiology, ed. by J. E. Treherne et al., Vol. 11, 449
- Advances in Metabolic Disorders, ed. by R. Luft and K. Hall, Vol. 8, 468
- Advances in Microbial Physiology, ed. by A. H. Rose and D. W. Tempest, Vol. 12, 438
- Advances in Neurology, ed. by B. S. Meldrum and C. D. Marsden, Vol. 10 (*Primate Models of Neurological Disorders*), 351
- Advances in Neurology, ed. by J. K. Penry and D. D. Daly, Vol. 11 (*Complex Partial Seizures and Their Treatment*), 471
- Advances in Optical and Electron Microscopy, ed. by R. Barer and V. E. Cosslett, Vol. 6, 475
- Advances in Parasitology, ed. by B. Dawes, Vol. 12, 149; Vol. 13, 326
- Advances in Pharmacology and Chemotherapy, ed. by S. Carattini et al., Vol. 12—1975, 471
- Advances in Protein Chemistry, ed. by C. B. Anfinsen et al., Vol. 29, 106
- Advances in Radiation Biology, ed. by J. T. Lett and H. Adler, Vol. 5, 358
- Advances in the Study of Behavior, ed. by D. S. Lehrman et al., Vol. 5, 174
- Advances in Virus Research, ed. by M. A. Lauffer et al., Vol. 19, 437
- Africa, the Devastated Continent?, by A. de Vos, 333
- Agaricales in Modern Taxonomy, the, by R. Singer, 535
- Agassiz, L., *Scientific Results of a Journey in Brazil*, 94
- Aggression, ed. by J. P. Scott, 2nd ed., 458
- Aggression, human, resource competition and, *article*, 385
- Aggressive Behavior, ed. by K. W. Moyer, Vol. 1, Nos. 1—1974, 2—1975, 173
- Aging (mammalian), regulation of physiological changes during, *article*, 49
- Agnew, A. D. Q., *Upland Kenya Wild Flowers*, 135
- Akutsu, T., *Artificial Heart*, 471
- Alaska and Its Wildlife, by B. L. Sage, 169
- Alaska Fisheries Policy, ed. by A. R. Tussing et al., 169
- Albert, A., *The Selectivity of Drugs*, 203

- Alcock, J., *Animal Behavior*, 174
- Alfalfa Hill, by P. Parnall, 425
- Algae, the, by V. J. Chapman and D. J. Chapman, 2nd ed., 131
- Algae: Form and Function, by G. S. Venkataraman et al., 131
- Algal Cultures and Phytoplankton Ecology, by G. E. Fogg, 2nd ed., 331
- Allen, D. W., *The Naturalist in Britain*, 516
- Allen, G. E., *Life Science in the Twentieth Century*, 290
- Altschule, M. D. (ed.), *Frontiers of Pineal Physiology*, 180
- Alyev, D. A., *Photosynthetic Activity, Mineral Nutrition, and Plant Productivity*, 536
- Ambrose, E. J., and F. J. C. Roe (eds.), *Biology of Cancer*, 2nd ed., 353
- Among the Elephants, by I. Douglas-Hamilton and O. Douglas-Hamilton, 177
- Analysis and Presentation of Experimental Results, by R. G. Leaver and T. R. Thomas, 357
- Anatomy of the Guinea Pig, by G. Cooper and A. L. Schiller, 329
- Anderson's Flora of Alaska and Adjacent Parts of Canada, by S. L. Welsh, 134
- Androgens II and Antiandrogens, by F. Neumann et al., 564
- Anemia, by I. Raw, 349
- Anfinsen, C. B., et al. (eds.), *Advances in Protein Chemistry*, Vol. 29, 106
- Animal Behavior*, by J. Alcock, 174
- Animal Engineering*, ed. by *Scientific American*, 141
- Animal Liberation*, by P. Singer, 562
- Animal Physiology*, by K. Schmidt-Nielsen, 137
- Animal Population Ecology*, by J. P. Dempster, 335
- Anniversary Message*, by Editors, *QRB*, 1
- Annual Review of Biophysics and Bioengineering*, ed. by L. J. Mullins, Vol. 4—1975, 360
- Annual Review of Entomology*, ed. by R. F. Smith et al., Vol. 20, 325
- Annual Review of Phytopathology*, ed. by K. F. Baker, Vol. 13—1975, 320
- Antarctic Mammals*, by S. G. Brown et al., 329
- Antarctic Ostracoda (Myodocopina)*, by L. S. Kornicker, Pts. 1, 2, 451
- Anterior Pituitary*, the, ed. by A. Tixier-Vidal and M. G. Farquhar, 142
- Antibiotics*, ed. by J. W. Corcoran and F. E. Hahn, Vol. 3 (Mechanism of Action of Antimicrobial and Antitumor Agents), 199
- Antibody Molecule*, the, by A. Nisonoff et al., 106
- Antigens*, the, ed. by M. Sela, Vol. 3, 352
- Ants, Indians, and Little Dinosaurs*, ed. by A. Ternes (from *Natural History*), 101
- Apes, Men, and Language*, by E. Linden, 463
- Approaches to Primate Paleobiology*, ed. by F. S. Szalay, 104
- Aquatic and Wetland Plants of Southwestern United States*, by D. S. Correll and H. B. Correll, Vols. 1, 2, 134
- Aquatic Microbiology*, by G. Rheinheimer, 312
- Armington, J. C., *The Electroretinogram*, 181
- Armitage, P., *Sequential Medical Trials*, 567
- Aronson, E., *The Social Animal*, 2nd ed., 554
- Arthropod Vectors of Disease*, by J. R. Busvine, 565
- Artificial Heart*, by T. Akutsu, 471
- Aschoff, J. et al., *Chronobiological Aspects of Endocrinology*, 349
- Ashworth, J. M., and J. Dee, *The Biology of Slime Moulds*, 533
- Aspects of Obstetrics Today*, ed. by T. K. A. B. Eskes et al., 354
- Association of Japanese Agricultural Scientific Societies* (ed.), *Rice in Asia*, 317
- Atchley, W. R., and E. H. Bryant (eds.), *Multivariate Statistical Methods: Among-Groups Covariation*, 432
- Atlas of an Insect Brain*, by N. J. Strausfeld, 555
- Atlas of Descriptive Embryology*, by W. W. Mathews, 2nd ed., 532
- Atlas of Histology*, an, by J. A. G. Rhodin, 351
- Atlas of Neuropathology*, by N. Malamud and A. Hirano, 2nd ed., 180
- Autocorrelation Theory of Form Detection*, an, by W. R. Uttal, 461
- Aux sources de la biologie*, by R. Bernier, Vol. 1 (Les vingt premiers siècles: la classification), 100
- Avian Biology*, ed. by D. S. Farner and J. R. King, Vol. 5, 328
- Azraq: Desert Oasis, by B. Nelson, 333

B

- Babior, B. M. (ed.), *Cobalamin*, 350
- Bach, J.-F., *The Mode of Action of Immunosuppressive Agents*, 563

- Bacterial Metabolism, by H. W. Doelle, 2nd ed., 436
- Baer, A. S. (ed.), Genetics, 85
- Bailey, J. A. (ed.), Readings in Wildlife Conservation, 163
- Baker, D. A., and J. L. Hall (eds.), Ion Transport in Plant Cells and Tissues, 536
- Baker, K. F. (ed.), Annual Review of Phytopathology, Vol. 13—1975, 320
- Balanus balanoides*, by H. G. Stubbings, 543
- Ball, E. M., Serological Tests for the Identification of Plant Viruses, 440
- Balls, M., and A. E. Wild (eds.), The Early Development of Mammals, 309
- Balon, E. K., Fishes of Lake Kariba, Africa, 171
- Balon, E. K., and A. G. Coche (eds.), Lake Kariba: A Man-Made Tropical Ecosystem in Central Africa, 170
- Ballonoff, P. (ed.), Genetics and Social Structure: Mathematical Structuralism in Population Genetics and Social Theory, 118
- Banfied, A. W. F., the Mammals of Canada, 155
- Barer, R., and V. E. Cosslett (eds.), Advances in Optical and Electron Microscopy, Vol. 6, 475
- Barnes, R. S. K., Estuarine Biology, 164
- Barrington, E. J. W., An Introduction to General and Comparative Endocrinology, 2nd ed., 540
- (ed.), Trends in Comparative Endocrinology, 447
- Bauman, L. F., et al. (eds.), High-Quality Protein Maize, 317
- Beck, F., and J. B. Lloyd (eds.), The Cell in Medical Science, Vol. 1 (The Cell and Its Organelles), Vol. 2 (Cellular Genetics, Development and Cellular Specialization), 199
- Behavioural Physiology of Animals and Man, the [The Collected Papers of Erich von Holst], Vol. 1, tr. by R. Martin, 171
- Being and Becoming Human: Essays on the Biogram, by E. W. Count, 189
- Bench, R. J., et al. (eds.), Sound Reception in Mammals, 555
- Benefits (and costs) of lizard thermoregulation, article, 363
- Bentley, P. J., Comparative Vertebrate Endocrinology, 540
- Bergsma, D. (ed.), Immunodeficiency in Man and Animals, 352
- (ed.), Morphogenesis and Malformation of Face and Brain, 435
- Berliner, L. J. (ed.), Spin Labeling, 524
- Bernier, R., Aux sources de la biologie, Vol. 1 (les vingt premiers siècles: la classification), 100
- Bigelow, H. E., and H. D. Thiers (eds.), Studies on Higher Fungi, 441
- Bilayer Lipid Membranes (BLM), by H. T. Tien, 109
- Biochemical and Biophysical Perspectives in Marine Biology, ed. by D. C. Malins and J. R. Sargent, Vol. 1, 164; Vol. 2, 454
- Biochemical and Immunological Taxonomy of Animals, ed. by C. A. Wright, 139
- Biochemie der Pflanzen, by H. Kindl and G. Wöber, 126
- Biochemistry, by L. Stryer, 426
- Biochemistry, by M. Yudkin and R. Offord, 426
- Biochemistry of Animal Development, the, ed. by R. Weber, Vol. 3 (Molecular Aspects of Animal Development), 119
- Biochemistry of Antimicrobial Action, by T. J. Franklin and G. A. Snow, 2nd ed., 314
- Biochemistry of Hormones, ed. by H. V. Rickenberg, 112
- Biochemistry of Human Cancer, by O. Bodansky, 198
- Biochemistry of Lipids, ed. by T. W. Goodwin, 108
- Biochemistry of Nucleic Acids, ed. by K. Burton, 299
- Biogeographica, ed. by J. Schmithüsen, Vol. 5, Pt. 1 (Die Molluskenfauna des Vogelsberges unter besonderer Berücksichtigung biogeographischer Aspekte), Pt. 2 (Die Wassermollusken des Einzugsgebietes der Nahe), 542
- Biograffiti, by J. M. Burns, 472
- Biological Control by Natural Enemies, by P. De Bach, 161
- Biological Interfaces, by M. N. Jones, 109
- Biological Membranes, ed. by D. S. Parsons, 526
- Biological Resources of Inland Aquatic Azerbaijan, ed. by Academy of Sciences of the Azerbaijan SSR, 551
- Biological Rhythms in Neuroendocrine Activity, ed. by M. Kawakami, 206
- Biological Systems, by S. D. Gerking, 2nd ed., 100
- Biologie et physiologie des éléments nerveux, by P. Laget, Vol. 1, 2nd rev. ed., 184

- Biology, by H. Curtis, 2nd ed., 96
- Biology, by I. W. Sherman and V. G. Sherman, 97
- Biology, by T. A. Steyaert, 96
- Biology: The Science of Life, by J. E. Rahn, 98
- Biology and Man, by W. D. McElroy et al., 97
- Biology of Agricultural Systems, the, by C. R. W. Spedding, 562
- Biology of Cancer, ed. by E. J. Ambrose and F. J. C. Roe, 2nd ed., 353
- Biology of Cholinesterases, the, by A. Silver, 142
- Biology of Free-Living Nematodes, by W. L. Nicholas, 451
- Biology of Lichens, the, by M. E. Hale, Jr., 2nd ed., 133
- Biology of Plant Phenolics, the, by J. R. L. Walker, 439
- Biology of Sea Snakes, the, ed. by W. A. Dunson, 446
- Biology of Slime Moulds, the, by J. M. Ashworth and J. Dee, 533
- Biology of the Mouse Histocompatibility-2 Complex, by J. Klein, 307
- Biology of *Tribolium*, with Special Emphasis on Genetic Aspects, the, Vol. 2, by A. Sokoloff, 148
- Bird, J., and K. Maramorosch (eds.), Tropical Diseases of Legumes, 535
- Birky, C. W., Jr., et al. (eds.), Genetics and Biogenesis of Mitochondria and Chloroplasts, 527
- Blackall, W. E., and B. J. Grieve, How to Know Western Australian Wildflowers, Pts. 1, 2, 3, 135
- Blair, G. W. S., An Introduction to Biorheology, 208
- Blass, E. M. (ed.), The Psychobiology of Curt Richter, 459
- Blossingame, W., Wonders of Frogs and Toads, 295
- Blower, J. G. (ed.), Myriapoda, 147
- Bockris, J. O'M., and Z. Nagy, Electrochemistry for Ecologists, 164
- Bodansky, O., Biochemistry of Human Cancer, 198
- Bodansky, O., and A. L. Latner (eds.), Advances in Clinical Chemistry, Vol. 18—1976, 470
- Bolis, L., et al. (eds.), Comparative Physiology, 539
- Bolt, B. A., Nuclear Explosions and Earthquakes, 426
- Booolootian, R. A., and K. A. Stiles, College Zoology, 9th ed., 449
- Born: Sociobiology, by M. J. West Eberhard, lead review of Sociobiology, by E. O. Wilson, 89
- BOTANICAL SCIENCES, book reviews, 124, 315, 438, 533
- Botany: A Human Concern, by D. Rayle and L. Wedberg, 125
- Botany: An Introductory Survey of the Plant Kingdom, by J. D. Haynes, 124
- Bouček, Z., A Revision of the Leucospidae (Hymenoptera: Chalcidoidea) of the World, 324
- Boucot, A. J., Evolution and Extinction Rate Controls, 105
- Boudreau, J. C., and C. Tsuchitani, Sensory Neurophysiology with Special Reference to the Cat, 178
- Bourne, G. H., and J. F. Danielli (eds.), International Review of Cytology, Vols. 38, 39, 41, 114
- Boyer, P. D. (ed.), The Enzymes, 3rd ed., Vol. 10 (Protein Synthesis, DNA Synthesis and Repair, RNA Synthesis, Energy-Linked ATPases, Synthetases), 108
- Brady, N. C. (ed.), Advances in Agronomy, Vol. 26, 318
- Brain as a Computer, the, by F. H. George, 185
- Branching Processes with Biological Applications, by P. Jagers, 421
- Breed, A., Through the Molecular Maze, 427
- Breeding Biology of the Gray Gull, *Larus modestus*, by T. R. Howell, 152
- Brewer, G. J. (ed.), Erythrocyte Structure and Function, 200
- Broda, E., The Evolution of the Bioenergetic Processes, 530
- Brody, H., et al. (eds.), Aging, Vol. 1 (Clinical, Morphologic, and Neurochemical Aspects in the Aging Central Nervous System), 558
- Broman, S., Preschool IQ, 190
- Bronner, F., and A. Kleinzeller (eds.), Current Topics in Membranes and Transport, Vol. 7, 430
- Brouk, B., Plants Consumed by Man, 348
- Brown, C. H., Structural Materials in Animals, 547
- Brown, J. E., The Sea's Harvest, 294
- , Wonders of a Kelp Forest, 425
- Brown, J. L., The Evolution of Behavior, 175
- Brown, M. R. W. (ed.), Resistance of *Pseudomonas aeruginosa*, 437

- Brown, S. G., et al., Antarctic Mammals, 329
- Bryant, E. H., and W. R. Atchley (eds.), Multivariate Statistical Methods: Within-Group Covariation, 432
- Buchwald, N. A., and M. A. B. Brazier (eds.), Brain Mechanisms in Mental Retardation, 460
- Bünning, E., Wilhelm Pfeffer, 291
- Burke, D. C., and W. C. Russel (eds.), Control Processes in Virus Multiplication, 111
- Burnet, M., Intrinsic Mutagenesis: A Genetic Approach to Ageing, 119
- Burnett, J. H., Mycogenetics, 306
- Burns, J. M., Biograffiti, 472
- Burns, R. C., and R. W. F. Hardy, Nitrogen Fixation in Bacteria and Higher Plants, 523
- Burton, K. (ed.), Biochemistry of Nucleic Acids, 299
- Busvine, J. R., Arthropod Vectors of Disease, 565
- Butler, W. H., and P. M. Newberne (eds.), Mouse Hepatic Neoplasia, 567
- Butt, W. R., Hormone Chemistry, 2nd rev. ed., Vol. 1 (Protein, Polypeptide and Peptide Hormones), 524
- Butterfly Magic, by K. B. Sandved and M. G. Emsley, 209
- By the Evidence, by L. S. B. Leakey, 515
- C
- Caldwell, L. K., Man and His Environment: Policy and Administration, 168
- Campbell, P. N., and W. N. Aldridge (eds.), Essays in Biochemistry, Vol. 11—1975, 429
- Candy, D. J., and B. A. Kilby (eds.), Insect Biochemistry and Function, 147
- Cardiovascular Physiology, ed. by J. V. Warren, 204
- Carey, W. (ed.), Flora Indica or Descriptions of Indian Plants by William Roxburgh with Additions and Observations by Nathaniel Wallich, Vols. 1, 2, 442
- Carlquist, S., Ecological Strategies of Xylem Evolution, 127
- Carlson, F. D., and D. R. Wilkie, Muscle Physiology, 539
- Carnivores of West Africa, the, by D. R. Rosevear, 155
- Carozzi, A. (ed.), Geology and Physical Geography of Brazil (by Ch. Fred Hartt) and Scientific Results of a Journey in Brazil (by Louis Agassiz and His Traveling Companions), 94
- Catalogue of Fossil Hominids, ed. by K. P. Oakley et al., Pt. 3 (Americas, Asia, Australasia), 347
- Catalogue of the Fossil and Recent Genera and Species of Diatoms and Their Synonyms, by S. L. Van Landingham, Pt. 5 (Navicula), 426
- Cats in Zanzibar, the, by M. Levandowsky, *lead review of* Introduction to Mathematical Biology, by S. K. Rubinow, and Mathematischeskoye Modelirovaniye v Biofizike, by Y. M. Romanovsky, 417
- Cavalli-Sforza, L. L., and W. F. Bodmer, The Genetics of Human Population, *commentary*, 85
- Cell Biology, by E. D. P. De Robertis et al., 6th ed., 304
- Cell in Medical Science, the, ed. by F. Beck and J. B. Lloyd, Vol. 1 (The Cell and Its Organelles), Vol. 2 (Cellular Genetics, Development and Cellular Specialization), 199
- CELLULAR BIOLOGY, *book reviews*, 112, 302, 430, 525
- Cellular Interactions in Animal Development, by E. M. Deuchar, 308
- Cellular Neurophysiology and Integration: An Interpretive Introduction, by W. R. Uttal, 461
- Chace, G. E., Wonders of Rattlesnakes, 423
- Chambers, C. D., et al., Chemical Coping: A Report on Legal Drug Use in the United States, 190
- Changes (physiological) during mammalian aging, *article*, 49
- Changing Sex Differential in Mortality, the, by R. D. Retherford, 560
- Chapman, V. J., and D. J. Chapman, The Algae, 2nd ed., 131
- Charles Darwin's Natural Selection, ed. by R. C. Stauffer, 93
- Chemical Coping: A Report on Legal Drug Use in the United States, by C. D. Chambers et al., 190
- Chemical Zoology, ed. by M. Florkin and B. T. Scheer, Vol. 9 (Amphibia and Reptilia), 446
- Chemische Evolution und der Ursprung lebender Systeme, by K. Dose and H. Rauffuss, 422
- Chemische Farbreaktionen von Pilzen, by A. Meizner, 441
- Chemistry and Microbiology of Pollution, the, by I. J. Higgins and R. G. Burns, 551
- Cheng, T. C. (ed.), Molluscicides in Schistosomiasis, 423

- miasis Control, 205
- Cheville, N. F., Cytopathology in Viral Diseases, 566
- Chitwood, B. G., and M. B. Chitwood, Introduction to Nematology, 146
- Chivers, D. J., The Siamang in Malaya, 330
- Christensen, C. M., Molds, Mushrooms, and Mycotoxins, 134
- Ciba Foundation (ed.), Cell Patterning, 112
- (ed.), Energy Transformation in Biological Systems, 522
- (ed.), Human Rights in Health, 193
- (ed.), Outcome of Severe Damage to the Central Nervous System, 460
- (ed.), Parent-Infant Interaction, 559
- (ed.), Physiological Basis of Starling's Law of the Heart, the, 471
- (ed.), Poisoned Patient: The Role of the Laboratory, the, 202
- (ed.), Size at Birth, 310
- (ed.), Structure and Function of Chromatin, the, 111
- Circannual rhythms of food consumption in marmosets and ground squirrels, hibernation and, *article*, 477
- Clarke, C. A. (ed.), Rhesus Haemolytic Disease, 470
- Clarke, P. H., and M. H. Richmond (eds.), Genetics and Biochemistry of *Pseudomonas*, 314
- Clausen, R. T., *Sedum* of North America North of the Mexican Plateau, 444
- Cline, M. J., The White Cell, 468
- Cloudsley-Thompson, J. L., Terrestrial Environments, 167
- Cobalamin, ed. by B. M. Babior, 350
- Cobbold, R. S. C., Transducers for Biomedical Measurements: Principles and Applications, 205
- Cohn, W. E. (ed.), Progress in Nucleic Acid Research and Molecular Biology, Vol. 15—1975, 299
- Coineau, Y., Introduction à l'étude des microarthropodes du sol et de ses annexes, 339
- Colborn, J. G., The Thermal Structure of the Indian Ocean, 453
- Cold Spring Harbor Laboratory, Cold Spring Harbor Symposia on Quantitative Biology, Vol. 39 (Tumor Viruses), Pts. 1, 2, 311
- Cole, S., Leakey's Luck, 515
- College Zoology, by R. A. Boolootian and K. A. Stiles, 9th ed., 449
- Colowick, S. P., and N. O. Kaplan (eds.), Methods in Enzymology, Vol. 35 (Lipids, Pt. B), 108; Vol. 36 (Hormone Action, Pt. A: Steroid Hormones), Vol. 37 (Hormone Action, Pt. B: Peptide Hormones), Vol. 38 (Hormone Action, Pt. C: Cyclic Nucleotides), Vol. 39 (Hormone Action, Pt. D: Isolated Cells, Tissues, and Organ Systems), Vol. 40 (Hormone Action, Pt. E: Nuclear Structure and Function), 296; Vol. 43 (Antibiotics), 107
- COMMENTARY: Genetics, Intelligence, and Society, by J. R. G. Turner and B. Glass (*on Heredity and Society*, ed. by A. S. Baer; *The Structure of Human Populations*, ed. by G. A. Harrison and A. J. Boyce; *The Genetics of Human Populations*, by L. L. Cavalli-Sforza and W. F. Bodmer; and *Race Differences in Intelligence*, by J. C. Loehlin et al.), 85
- COMMENTARY: Group Selection, by J. Maynard Smith (*on Group Selection in Predator-Prey Communities*, by M. E. Gilpin), 277
- Communities and Ecosystems, 2nd ed., by R. H. Whittaker, 159
- Comparative Histology, by L. D. Leake, 546
- Comparative Study in Colour Patterns and Behaviour in Seven Asiatic *Barbus* Species (Cyprinidae, Ostariophysi, Osteichthyes), a, by K. Kortmulder, 176
- Comparative Vertebrate Endocrinology, by P. J. Bentley, 540
- Competition, resource, and human aggression, *article*, 385
- Complex Adaptations in Evolving Populations, by T. H. Frazzetta, 116
- Comprehensive Virology 5 (Structure and Assembly: Virions, Pseudovirions, and Intraviral Nucleic Acids), ed. by H. Fraenkel-Conrat and R. R. Wagner, 437
- Computation and Interpretation of Biological Statistics of Fish Populations, by W. E. Ricker, 332
- Concepts and Approaches in Animal Morphology, by P. Dullemeijer, 137
- Concepts of Ecology, by E. J. Kormondy, 2nd ed., 549
- Concepts of Evolution, by E. C. Olson and J. A. Robinson, 116
- Concise Color Encyclopedia of Science, by R. Kerrod, 293
- Concrete Look at Nature, a, by E. Kinkead, 209

- Conklin, G., I Like Beetles, 423
- Connective Tissue, by M. B. Mathews, 547
- Conrad, M., et al. (eds.), Physics and Mathematics of the Nervous System, 186
- Consumption of food in marmots and ground squirrels, hibernation and circannual rhythms of, *article*, 477
- Contemporary Topics in Molecular Immunology, ed. by G. L. Ada, Vol. 3, 204
- Contemporary Topics in Molecular Immunology, ed. by F. P. Inman and W. J. Mandy, Vol. 4, 469
- Controversy, dance-language, *article*, 211
- Cooper, G., and A. L. Schiller, Anatomy of the Guinea Pig, 329
- Corcoran, J. W., and F. E. Hahn (eds.), Antibiotics, Vol. 3 (Mechanism of Action of Antimicrobial and Antitumor Agents), 199
- Corning, W. C., et al. (eds.), Invertebrate Learning, Vol. 3 (Cephalopods and Echinoderms), 342
- Correll, D. S., and H. B. Correll, Aquatic and Wetland Plants of Southwestern United States, Vols. 1, 2, 134
- Cosgrove, M., Messages and Voices, 425
- Costs and Benefits of Lizard Thermoregulation, by R. B. Huey and M. Slatkin, *article*, 363
- Cott, H. B., Looking at Animals, 445
- Coulston, F., and F. Korte (eds.), Environmental Quality and Safety, Suppl. to Vol. 2 (Lead), Vol. 3 (Global Aspects of Chemistry, Toxicology and Technology as Applied to the Environment), 334
- Count, E. W., Being and Becoming Human: Essays on the Biogram, 189
- Crafts, A. S., Modern Weed Control, 341
- Cralley, L. V., and P. R. Atkins (eds.), Industrial Environmental Health, 2nd ed., 334
- Crane, J., Fiddler Crabs of the World, 450
- Crichton, R. R. (ed.), Proteins of Iron Storage and Transport in Biochemistry and Medicine, 465
- Crispens, C. C., Jr., Handbook on the Laboratory Mouse, 445
- Cronin, L. E. (ed.), Estuarine Research, Vol. 1 (Chemistry, Biology, and the Estuarine System), 452; Vol. 2 (Geology and Engineering), 550
- Crop Physiology, ed. by L. T. Evans, 128
- Crosignani, P. G., and V. H. T. James (eds.), Recent Progress in Reproductive Endocrinology, 309
- Crow, J. F., Genetics Notes, 7th ed., 432
- Crowding and Behavior, by J. L. Freedman, 459
- Crusty Ones, the, by S. P. Russell, 102
- Cserr, H. F., et al. (eds.), Fluid Environment of the Brain, 343
- Curds, C. R., and H. A. Hawkes (eds.), Ecological Aspects of Used-Water Treatment, Vol. 1 (The Organisms and Their Ecology), 551
- Current Topics in Cellular Regulation, ed. by B. L. Horecker and E. R. Stadtman, Vol. 8, 525
- Current Topics in Experimental Endocrinology, ed. by V. H. T. James and L. Martini, Vol. 2, 142
- Current Topics in Membranes and Transport, ed. by F. Bronner and A. Kleinzeller, Vol. 7, 430
- Curry-Lindahl, K., and J.-P. Harroy, National Parks of the World, Vol. 2 (Africa, Asia, Australasia, and Oceania), 210
- Curtis, H., Biology, 2nd ed., 96
- Cushing, D. H., Marine Ecology and Fisheries, 333
- Cytopathology in Viral Diseases, by N. F. Cheville, 566
- Czerski, P., et al. (eds.), Biologic Effects and Health Hazards of Microwave Radiation, 471

D

- Dance-Language Controversy, the, by J. L. Gould, *article*, 211
- Davies, A. M., Tertiary Faunas, 2nd ed., Vol. 1 (The Composition of Tertiary Faunas), Vol. 2 (The Sequence of Tertiary Faunas), 522
- Davies, P. J. (ed.), Historical and Current Aspects of Plant Physiology: A Symposium Honoring F. C. Steward, 438
- Davies, P. W., and E. P. Solomon, The World of Biology, 98
- Dawes, B. (ed.), Advances in Parasitology, Vol. 12, 149; Vol. 13, 326
- Dawson, P. S. S. (ed.), Microbial Growth, 123
- Day, S. B. (ed.), Trauma, 470
- De Bach, P., Biological Control by Natural Enemies, 161
- DE OMNIBUS REBUS ET QUIBUSDAM ALIIS, *book reviews*, 206, 354, 472, 567
- De Robertis, E. D. P., et al., Cell Biology, 6th ed., 304
- De Vos, A., Africa, the Devastated Continent?, 333

- Dejours, P., Principles of Comparative Respiratory Physiology, 137
- Delany, M. J., The Ecology of Small Mammals, 160
- , The Rodents of Uganda, 446
- Demographic Genetics, ed. by K. M. Weiss and P. A. Ballonoff, 529
- Dempster, J. P., Animal Population Ecology, 335
- Denton, D. A., and J. P. Coghlan (eds.), Olfaction and Taste V, 460
- Deuchar, E. M., Cellular Interactions in Animal Development, 308
- , *Xenopus*: The South African Clawed Frog, 122
- Di Cara, L. V., Limbic and Autonomic Nervous System Research, 461
- Diabetes, ed. by J. Vallance-Owen, 566
- Diagnostic Ultrasound, by M. Hussey, 475
- Dickinson, W. J., and D. T. Sullivan, Gene-Enzyme Systems in *Drosophila*, 307
- Dictionary of Biochemistry, by J. Stenesh, 524
- Dictionary of Entomology, a, by A. W. Leftwich, 543
- Dictyostelium discoideum*, by W. F. Loomis, 121
- Differentiation and Growth of Cells in Vertebrate Tissues, ed. by G. Goldspink, 308
- Dingle, J. T., and R. T. Dean (eds.), Lysosomes in Biology and Pathology 4, 469
- Diseases Transmitted from Animals to Man, ed. by W. T. Hubbert et al., 6th ed., 197
- Displacement of Water and Its Control of Biochemical Reactions, by S. Lewin, 110
- Dixon, F. J., and H. G. Kunkel (eds.), Advances in Immunology, Vol. 20, 204; Vol. 21, 352; Vol. 22, 469
- Dobzhansky, Th., et al. (eds.), Evolutionary Biology, Vol. 8, 530
- Doelle, H. W., Bacterial Metabolism, 2nd ed., 436
- Dominance and Reproduction in Baboons (*Papio cynocephalus*), by G. Hausfater, 458
- DONNOHUE, J., Honest Jim?, lead review of Rosalind Franklin and DNA, 285
- Donnersberger, A. B., et al., A Manual of Anatomy and Physiology, 470
- Dorfman, R. I. (ed.), Steroid Hormones, 201
- Dose, K., and H. Rauchfuss, Chemische Evolution und der Ursprung lebender Systeme, 422
- Douglas-Hamilton, I., and O. Douglas-Hamilton, Among the Elephants, 177
- Downs, R. J., and H. Hellmers, Environment and the Experimental Control of Plant Growth, 538
- Drug Action and Drug Resistance in Bacteria, ed. by S. Mitsuhashi, Vol. 2 (Aminoglycoside Antibiotics), 314
- Du Praw, E. J. (ed.), Advances in Cell and Molecular Biology, Vol. 3—1974, 115
- Dullemeijer, P., Concepts and Approaches in Animal Morphology, 137
- Duncan, G., Physics for Biologists, 207
- Duncan, G., et al. (eds.), Fertility Control Methods, 189
- Dunn, A. J., and S. C. Bondy, Functional Chemistry of the Brain, 182
- Dunn, J. J. (ed.), Processing of RNA, 428
- Dunson, W. A. (ed.), The Biology of Sea Snakes, 446
- DURHAM, W. H., Resource Competition and Human Aggression, Part I: A review of Primitive War, article, 385
- Dynamic Aspects of Plant Ultrastructure, ed. by A. W. Robards, 316
- Dyson, R. D., Essentials of Cell Biology, 112

E

- Earl, D. E., Forest Energy and Economic Development, 454
- Earthworm is Born, an, by W. White, Jr., 519
- Eckholm, E. P., Losing Ground: Environmental Stress and World Food Prospects, 561
- Ecological Animal Parasitology, by C. R. Kennedy, 541
- Ecological Aspects of Used-Water Treatment, ed. by C. R. Curds and H. A. Hawkes, Vol. 1 (The Organisms and Their Ecology), 551
- Ecological Diversity, by E. C. Pielou, 336
- Ecological Strategies of Xylem Evolution, by S. Carlquist, 127
- Ecology of Small Mammals, the, by M. J. Delany, 160
- Economy of Nature, the, by R. E. Ricklefs, 548
- Ecosystems, Energy, Population, by J. Turk et al., 335
- EDITORS, QRB, Anniversary Message, 1
- Edwards, R. G., et al. (eds.), Immunobiology of Trophoblast, 435
- Eisenman, G. (ed.), Membranes, Vol. 3 (Lipid Bilayers and Biological Membranes—Dynamic Properties), 526
- Electric Current Flow in Excitable Cells, by J.

- J. B. Jack et al., 302
- Electrochemistry for Ecologists, by J. O'M. Bockris and Z. Nagy, 164
- Electron Micrographic Atlas of Viruses, the, by R. C. Williams and H. W. Fisher, 124
- Electron Microscopy of Enzymes, ed. by M. A. Hayat, Vols. 1, 2, 428
- Electroetnogram, the, by J. C. Armington, 181
- Ellenberg, H., et al. (eds.), *Progress in Botany* 36, 319
- Embryologie chimique et expérimentale, ed. by Masson et Cie., 120
- Environment and the Experimental Control of Plant Growth, by R. J. Downs and H. Hellmers, 538
- Environmental Quality and Safety, ed. by F. Coulston and F. Korte, Suppl. to Vol. 2 (Lead), Vol. 3 (Global Aspects of Chemistry, Toxicology, and Technology), 334
- Environmental Science, by A. Turk et al., 159
- ENVIRONMENTAL SCIENCES, *book reviews*, 156, 331, 452, 548
- Enzyme Induction in Aging and Protein Synthesis, ed. by MSS Information Corporation, 468
- Enzyme Kinetics, by I. H. Segel, 106
- Enzymes, the, ed. by P. D. Boyer, 3rd ed., Vol. 10 (Protein Synthesis, DNA Synthesis and Repair, RNA Synthesis, Energy-Linked ATPases, Synthetases), 108
- Enzymes: Physical Principles, by H. Gutfreund, 428
- Eskes, T. K. A. B., et al. (eds.), *Aspects of Obstetrics Today*, 354
- Essays in Biochemistry, ed. by P. N. Campbell and W. N. Aldridge, Vol. 11—1975, 429
- Essential Human Anatomy and Physiology, by B. R. Landau, 470
- Essentials of Biology, by W. H. Johnson et al., 2nd ed., 97
- Essentials of Cell Biology, by R. D. Dyson, 112
- Estuarine Biology, by R. S. K. Barnes, 164
- Ethology and Psychiatry, ed. by N. F. White, 178
- European Freshwater Eel, the, by V. R. P. Sinha and J. W. Jones, 544
- Evans, L. T. (ed.), *Crop Physiology*, 128
- Everhart, W. H., et al., *Principles of Fishery Science*, 332
- Evolution and Extinction Rate Controls, by A. J. Boucot, 105
- Evolution of Behavior, the, by J. L. Brown, 175
- Evolution of IBP, the, ed. by E. B. Worthington, 357
- Evolution of the Bioenergetic Processes, the, by E. Broda, 530
- Evolutionary Biology, ed. by Th. Dobzhansky et al., Vol. 8, 530
- Exercise and Sport Sciences Reviews, ed. by J. H. Wilmore and J. F. Keogh, Vol. 3, 464
- Experiences with Plants for Young Children, by F. C. Gale and C. W. Gale, 102
- Experimental Approach to Biology, an, by P. Abramoff and R. G. Thomson, 2nd ed., 422
- Explaining the Brain, by W. R. Russell and A. J. Dewar, 557
- Explanation, ed. by S. Körner, 518
- Eye for a Bird, an, by E. Hosking with F. W. Lane, 152
- F
- Fair, R. H., *Shell Collector's Guide*, 542
- Famine and Human Development, by Z. Stein et al., 191
- Fanning, O., *Man and His Environment: Citizen Action*, 168
- Fantastic World of Ants, the, by H. M. Mason, Jr., 294
- Farner, D. S., and J. R. King (ed.), *Avian Biology*, Vol. 5, 328
- Fauna of the U.S.S.R., by A. V. Gutsevich et al., Vol. 3, No. 4 (Diptera: Mosquitoes, Family Culicidae), 149
- Fauna Palaestina: Insecta I (Diptera Pupipara), by O. Theodor, 543
- Fegely, T. D., *Wonders of Wild Ducks*, 296
- , *World of the Woodlot*, the, 161
- Fell, B., *Life, Space and Time*, 158
- Female mammals that are larger than males, *article*, 245
- Fennoscandian Tundra Ecosystems, ed. by F. W. Wiegolaski, Pt. 1 (Plants and Microorganisms), 549
- Ferguson-Lees, J., et al. (eds.), *A Guide to Bird-Watching in Europe*, 545
- Fiddler Crabs of the World, by J. Crane, 450
- Field Guide to the Nests, Eggs and Nestlings of British and European Birds, with North Africa and the Middle East, a, by C. Harrison, 544
- Filamentous Fungi, the, ed. by J. E. Smith and

- D. R. Berry, Vol. 1 (Industrial Mycology), 320
- FINCH, C. E., The Regulation of Physiological Changes during Mammalian Aging, *article*, 49
- Findley, J. S., et al., Mammals of New Mexico, 155
- Fish Behavior: Why Fishes Do What They Do, by H. E. Adler, 553
- Fish Communities in Tropical Freshwaters—Their Distribution, Ecology, and Evolution, by R. H. Lowe-McConnell, 550
- Fishes of Lake Kariba, Africa, by E. K. Balon, 171
- Fishes of the World, by A. Wheeler, 327
- Flavonoids, the, ed. by J. B. Harborne et al., Pts. 1, 2, 301
- Flora Indica or Descriptions of Indian Plants, by William Roxburgh with Additions and Observations by Nathaniel Wallich, ed. by W. Carey, Vols. 1, 2, 442
- Flora Japonica, by C. P. Thunberg, 291
- Flora of Ceylon, ed. by B. A. Abeywickrama, Vol. 1, Pt. 1, 136
- Flora of Nigeria: Sedges (Family Cyperaceae), the, by J. Lowe and D. P. Stanfield, 443
- Flora of Southern California, a, by P. A. Munz, 533
- Florae URSS Fontes (Literaturnye Istochniki po Flore SSSR), by S. Lipschitz, 534
- Florkin, M., and B. T. Scheer (eds.), Chemical Zoology, Vol. 9 (Amphibia and Reptilia), 446
- Fluid Behaviour in Biological Systems, by L. Leyton, 473
- Fogg, G. E., Algal Cultures and Phytoplankton Ecology, 2nd ed., 331
- , Growth of Plants, the, 2nd rev. ed., 315
- Fong, F. K., Theory of Molecular Relaxation, 429
- Food consumption in marmots and ground squirrels, hibernation and circannual rhythms of, *article*, 477
- Ford, B., How Birds Learn to Sing, 422
- Forest Energy and Economic Development, by D. E. Earl, 454
- Forest Service, the, by G. O. Robinson, 464
- Foundations of Biophysics, by A. L. Stanford, Jr., 207
- Fox, M. W. (ed.), The Wild Canids, 177
- Fraenkel-Conrat, H. (ed.), Comprehensive Virology 5 (Structure and Assembly: Virions, Pseudovirions, and Intraviral Nucleic Acids), 437
- Franchimont, P., and H. Burger, Human Growth Hormone and Gonadotrophins in Health and Disease, 201
- Franklin, T. J., and G. A. Snow, Biochemistry of Antimicrobial Action, 2nd ed., 314
- Fraser, J. T., and N. Lawrence (eds.), The Study of Time II, 518
- Frazzetta, T. H., Complex Adaptations in Evolving Populations, 116
- Frederick, K. D., Water Management and Agricultural Development: A Case Study of the Cuyo Region of Argentina, 561
- Freedman, J. L., Crowding and Behavior, 459
- Freedman, R., Growing Up Wild, 293
- French, F. S., et al. (eds.), Hormonal Regulation of Spermatogenesis, 532
- Fretter, V., and J. Peake (eds.), Pulmonates, Vol. 1 (Functional Anatomy and Physiology), 149
- Frey, R. W. (ed.), The Study of Trace Fossils, 521
- Fridriksson, S., Surtsey, 420
- Fried, C., Medical Experimentation: Personal Integrity and Social Policy, 197
- Frontiers of Pineal Physiology, ed. by M. D. Altschule, 180
- Functional Anatomy of Marine Mammals, ed. by R. J. Harrison, Vol. 2, 154
- Functional Chemistry of the Brain, by A. J. Dunn and S. C. Bondy, 182
- Functional Linkage in Biomolecular Systems, ed. by F. O. Schmitt et al., 427
- Fundamentals of Ornithology, 2nd ed., by J. Van Tyne and A. J. Berger, 544

G

- Gale, F. C., and C. W. Gale, Experiences with Plants for Young Children, 102
- Galliard, T., and E. I. Mercer (eds.), Recent Advances in the Chemistry and Biochemistry of Plant Lipids, 439
- Gamborg, O. L., and L. R. Wetter (eds.), Plant Tissue Culture Methods, 316
- Garattini, S., et al. (eds.), Advances in Pharmacology and Chemotherapy, Vol. 12—1975, 471
- Gates, D. M., and R. B. Schmerl (eds.), Perspectives of Biophysical Ecology, 456
- Gay, W. I. (ed.), Methods of Animal Experimentation, Vol. 5 (Nutrition, Aging, and Artificial Organs), 140
- Gayral, P., Les algues, 441
- Gazzaniga, M. S., and C. Blakemore (eds.),

- Handbook of Psychobiology, 557
- Gehu, J. M. (ed.), *La végétation des dunes maritimes*, 534
- Geist, V., *Mountain Sheep and Man in the Northern Wilds*, 348
- Gene-Enzyme Systems in *Drosophila*, by W. J. Dickinson and D. T. Sullivan, 307
- GENERAL BIOLOGY, *book reviews*, 96, 292, 518
- General Ecology—Biocenology—Hydrobiology, ed. by Z. I. Kuznetsova, 158
- Generic Names of Moths of the World, the, by I. W. B. Nye, Vol. 1 [Noctuoidea (part): Noctuidae, Agaristidae, and Nolidae], 544
- Genes and Proteins, ed. by R. P. Wagner, 306
- Genetic Notes, by J. F. Crow, 7th ed., 432
- Genetic Structure and Function, by P. F. Smith-Keary, 117
- Genetics and Biochemistry of *Pseudomonas*, ed. by P. H. Clarke and M. H. Richmond, 314
- GENETICS AND EVOLUTION, *book reviews*, 115, 304, 431, 528
- Genetics and Social Structure: Mathematical Structuralism in Population Genetics and Social Theory, ed. by P. Ballonoff, 118
- Genetics, Intelligence, and Society, by J. R. G. Turner and B. Glass, *commentary on Heredity and Society*, ed. by A. S. Baer; *The Structure of Human Populations*, ed. by G. A. Harrison and A. J. Boyce; *The Genetics of Human Populations*, by L. L. Cavalli-Sforza and W. F. Bodmer; and *Race Differences in Intelligence*, by J. C. Loehlin et al., 85
- Genetics of Human Populations, the, by L. L. Cavalli-Sforza and W. F. Bodmer, *commentary*, 85
- Geochemistry and the Origin of Life, ed. by K. A. Kvenvolden, 117
- Geology and Physical Geography of Brazil (by Ch. Fred Hartt) and *Scientific Results of a Journey in Brazil* (by Louis Agassiz and His Traveling Companions), by A. V. Carozzi, 94
- George, F. H., *The Brain as a Computer*, 185
- Geraldes, A. (ed.), *Effects of Interferon on Cells, Viruses and the Immune System*, 351
- Gerhardt, P., et al. (eds.), *Spores VI*, 313
- Gerking, S. D., *Biological Systems*, 2nd ed., 100
- , *Biological Systems (Laboratory Manual)*, 4th ed., 100
- Giese, A. C., and J. S. Pearse (eds.), *Reproduction of Marine Invertebrates*, Vol. 2 (Entoprocts and Lesser Coelomates), 145; Vol. 3 (Annelids and Echiurans), 326
- Gilbert, L. E., and P. H. Raven (eds.), *Coevolution of Animals and Plants*, 431
- Gilpin, M. E., *Group Selection in Predator-Prey Communities*, *commentary*, 277
- GLASS, B. [with J. R. G. TURNER], *Genetics, Intelligence, and Society*, *commentary on Heredity and Society*, ed. by A. S. Baer; *The Structure of Human Populations*, ed. by G. A. Harrison and A. J. Boyce; *The Genetics of Human Populations*, by L. L. Cavalli-Sforza and W. F. Bodmer; and *Race Differences in Intelligence*, by J. C. Loehlin et al., 85
- Glauert, A. M. (ed.), *Practical Methods in Electron Microscopy*, Vol. 3, Pt. 1 (Fixation, Dehydration and Embedding of Biological Specimens), Pt. 2 (Ultramicrotomy), 207
- Gledhill, T., et al., *A Revised Key to the British Species of Crustacea: Malacostraca Occurring in Fresh Water with Notes on Their Ecology and Distribution*, 543
- Glimpses in Plant Research, by P. K. K. Nair, Vol. 2 (*Studies in Plant Biology—A Palynological Approach*), 322
- Godwin, H., *The History of the British Flora*, 322
- Goin, C. J., and O. B. Goin, *Man and the Natural World*, 97
- Golanty, E., *Human Reproduction*, 189
- Gold, E. R., and P. Balding, *Receptor-Specific Proteins*, 527
- Goldman, R., and M. Rockstein (eds.), *The Physiology and Pathology of Human Aging*, 558
- Goldspink, G. (ed.), *Differentiation and Growth of Cells in Vertebrate Tissues*, 308
- Goodman, L. S., and A. Gilman (eds.), *The Pharmacological Basis of Therapeutics*, 5th ed., 469
- Goodwin, T. W. (ed.), *Biochemistry of Lipids*, 108
- Gordon, E. S., and B. L. Gordon, *There Really Was a Dodo*, 102
- GOULD, J. L., *The Dance-Language Controversy*, *article*, 211
- Graf, J. (ed.), *Tafelwerk zur Pflanzensystematik*, 535
- Grassé, P.-P. (ed.), *Traité de zoologie: anatomie, systématique, biologie*, Vol. 3 (*Spongiaires*), Pt. 1 (*Anatomie, physiologie, systématique, écologie*), 138
- Green Algae, by J. D. Pickett-Heaps, 132
- Green, J. C., and R. S. Janssen, *Minnesota Birds*,

- 328
 Greengard, P., and G. A. Robison (eds.), *Advances in Cyclic Nucleotide Research*, Vol. 6, 300
 Greenwood, P. H., *A Review of the Family Centropomidae (Pisces, Perciformes)*, 544
 Grell, R. F. (ed.), *Mechanisms in Recombination*, 118
 Ground squirrels and marmots, hibernation and circannual rhythms of food consumption in, *article*, 477
 Group Selection, by J. Maynard Smith, *commentary on Group Selection in Predator-Prey Communities*, by M. E. Gilpin, 277
 Group Selection in Predator-Prey Communities, by M. E. Gilpin, *commentary*, 277
 Growing Up Wild, by R. Freedman, 293
 Growth of Plants, the, by G. E. Fogg, 2nd rev. ed., 315
 Gruenewald, P. (ed.), *The Placenta and Its Maternal Supply Line*, 464
 Grundmann, E. (ed.), *Special Topics in Carcinogenesis*, 194
 Grzimek, H. C. B. (ed.), *Grzimek's Animal Life Encyclopedia*, Vol. 2 (Insects), 138; Vol. 12 (Mammals III), 329
 Grzimek's Animal Life Encyclopedia, ed. by H. C. B. Grzimek, Vol. 2 (Insects), 138; Vol. 12 (Mammals III), 329
 Guggisberg, C. A. W., *Wild Cats of the World*, 546
 Guide to Bird-Watching in Europe, a, ed. by J. Ferguson-Lees et al., 545
 Guide to Shells, by A. P. H. Oliver, 542
 Guide to the Vascular Flora of Illinois, by R. H. Mohlenbrock, 441
 Gutfreund, H., *Enzymes: Physical Principles*, 428
 Gutsevich, A. V., et al., *Fauna of the U.S.S.R.*, Vol. 3, No. 4 (Diptera: Mosquitoes, Family Culicidae), 149
- H**
- Haemoglobin, Isoenzymes and Tissue Differentiation, by C. J. Masters and R. S. Holmes, 308
 Hale, M. E., Jr., *The Biology of Lichens*, 2nd ed., 133
 Hall, D. C., and S. E. Hawkins (eds.), *Laboratory Manual of Cell Biology*, 431
 Handbook of Drug and Chemical Stimulation of the Brain, by R. D. Myers, 182
 Handbook of Genetics, ed. by R. C. King, Vol. 1 (Bacteria, Bacteriophages, and Fungi), Vol. 2 (Plants, Plant Viruses, and Protists), Vol. 3 (Invertebrates of Genetic Interest), 304
 Handbook of Psychobiology, ed. by M. S. Gazzaniga and C. Blakemore, 557
 Handbook on the Laboratory Mouse, by C. C. Crispens, Jr., 445
 Harborne, J. B., et al. (eds.), *The Flavonoids*, Pts. 1, 2, 301
 Hardy, D. E., *Pacific Insects*, Monograph 31 (The Fruit Flies—Tephritidae, Diptera—of Thailand and Bordering Countries), Monograph 32 (The Fruit Flies of the Philippines), 324
 Harris, T. M., et al., *The Yorkshire Jurassic Flora IV (Ginkgoales and Czekanowskiales)*, 105
 Harrison, C., *A Field Guide to the Nests, Eggs and Nestlings of British and European Birds, with North Africa and the Middle East*, 544
 Harrison, D., *Patterns in Biology*, 292
 Harrison, G. A., and A. J. Boyce (eds.), *The Structure of Human Populations*, 85
 Harrison, R. J. (ed.), *Functional Anatomy of Marine Mammals*, Vol. 2, 154
 Hartt, Ch. F., *Geology and Physical Geography of Brazil*, 94
 Hartmann, H. T., and D. E. Kester, *Plant Propagation*, 3rd ed., 537
 Hartwich, G., *Rhabditida und Ascaridida*, 541
 Hausfater, G., *Dominance and Reproduction in Baboons (*Papio cynocephalus*)*, 458
 Hayaishi, O. (ed.), *Molecular Oxygen in Biology*, 429
 Hayat, M. A. (ed.), *Electron Microscopy of Enzymes*, Vols. 1, 2, 428
 —, *Positive Staining for Electron Microscopy*, 358
 — (ed.), *Principles and Techniques of Electron Microscopy*, Vol. 5 (Biological Applications), 208
 — (ed.), *Principles and Techniques of Scanning Electron Microscopy*, Vols. 3, 4 (Biological Applications), 358
 Haynes, J. D., *Botany: An Introductory Survey of the Plant Kingdom*, 124
 Healey, B. J., *The Plant Hunters*, 125
 HEALTH SCIENCES, *book reviews*, 193, 348, 464, 563
 Herbicides, ed. by P. C. Kearney and D. D. Kaufman, 2nd rev. ed., 444
 Heredity and Society, ed. by A. S. Baer, *commentary*, 85

- Heritage of Copernicus: Theories "Pleasing to the Mind," ed. by J. Neyman, 95
- Heterogeneity of Polypeptide Hormones, ed. by D. Rabinowitz and J. Roth, 467
- Hewitt, E. J., and T. A. Smith, Plant Mineral Nutrition, 536
- Hibernation and Circannual Rhythms of Food Consumption in Marmots and Ground Squirrels, by D. E. Davis, *article*, 477
- Higgins, I. J., and R. G. Burns, The Chemistry and Microbiology of Pollution, 551
- Hilgard, E. R., and J. R. Hilgard, Hypnosis in the Relief of Pain, 354
- Hilton, A. M. (ed.), Against Pollution and Hunger, 193
- Histology of the Fowl, the, by R. D. Hodges, 154
- HISTORY AND PHILOSOPHY, *book reviews*, 93, 290, 420, 515
- History of Fishes, a, by J. R. Norman (ed. by P. H. Greenwood), 3rd rev. ed., 150
- History of the British Flora, the, by H. Godwin, 322
- Hodges, R. D., The Histology of the Fowl, 154
- Holloway, R. L. (ed.), Primate Aggression, Territoriality, and Xenophobia, 457
- Holthe, T., A Simple Key to the Northern European Species of Terebellomorphe Polychaeta, 146
- Honest Jim?, by J. Donohue, *lead review of* Rosalind Franklin and DNA, by A. Sayre, 285
- Hope, A. B., and N. A. Walker, The Physiology of Giant Algal Cells, 133
- Horecker, B. L., and E. R. Stadtman (eds.), Current Topics in Cellular Regulation, Vol. 8, 525
- Hormonal Proteins and Peptides, ed. C. H. Li, Vols. 1, 2, 144; Vol. 3, 563
- Hormone Chemistry, by W. R. Butt, 2nd rev. ed., Vol. 1 (Protein, Polypeptide and Peptide Hormones), 524
- Horowitz, F. D. (ed.), Review of Child Development Research, Vol. 4, 559
- Horridge, G. A. (ed.), The Compound Eye and Vision of Insects, 554
- Horses the Indians Rode, the, by S. A. Lavine, 296
- Hosking, E., An Eye for a Bird, 152
- How Birds Learn to Sing, by B. Ford, 422
- How Insects Communicate, by D. H. Patent, 424
- How to Know Western Australian Wildflowers, by W. E. Blackall and B. M. Grieve, Pts. 1, 2, 3, 135
- Howell, T. R., et al., Breeding Biology of the Gray Gull, *Larus modestus*, 152
- Howes, P. G., Mini-Wood Community, 337
- Hsieh, K.-T., Modern Cell Biology, 113
- Hubbert, W. T., et al., Diseases Transmitted from Animals to Man, 6th ed., 197
- HUEY, R. B., and M. SLATKIN, Costs and Benefits of Lizard Thermoregulation, *article*, 363
- Hughes, N. F., Palaeobiology of Angiosperm Origins, 520
- Human aggression, resource competition and, *article*, 385
- HUMAN BIOLOGY, *book reviews*, 187, 347, 463, 558
- Human Growth Hormone and Gonadotrophins in Health and Disease, by P. Franchimont and H. Burger, 201
- Human Nervous System, the, by C. R. Noback, 460
- Human Reproduction, by E. Golanty, 189
- Humfrey, M., Sea Shells of the West Indies, 542
- Hunting with the Microscope, by G. Johnson and M. Bleifeld, 423
- Hussey, M., Diagnostic Ultrasound, 475
- Hutchins, R. E., Insects and Their Young, 293
- Hypnosis in the Relief of Pain, by E. R. Hilgard and J. R. Hilgard, 354

I

- I Like Beetles, by G. Conklin, 423
- Illustrated Guide to Aquatic and Water-Borne Hyphomycetes (Fungi Imperfecti) with Notes on Their Biology, an, by C. T. Ingold, 440
- Immunobiology of Trophoblast, ed. by R. G. Edwards et al., 435
- Immunologic and Infectious Reactions in the Lung, ed. by C. H. Kirkpatrick and H. Y. Reynolds, 469
- Immunological Parameters of Host-Tumor Relationships, ed. by D. W. Weiss, Vol. 3, 193
- Immunology, ed. by *Scientific American*, 563
- Impact: Science on Society, ed. by R. L. Wolke, 168
- In the Shadow of a Rainbow, by R. F. Leslie, 424
- Industrial Environmental Health, ed. by L. V. Cralley and P. R. Atkins, 2nd ed., 334
- Ingle, D. J., and H. M. Shein (eds.), Model Systems in Biological Psychiatry, 471
- Ingold, C. T., An Illustrated Guide to Aquatic

- and Water-Borne Hyphomycetes (Fungi Imperfecti) with Notes on Their Biology, 440
- Ingram, D. L., and L. E. Mount, Man and Animals in Hot Environments, 452
- Inherited Biochemical Disorders and Uric Acid Metabolism, by D. S. Newcombe, 528
- Inhibitors of Nucleic Acid Synthesis, by H. Kersten and W. Kersten, 428
- Initiation of the Heartbeat, the, by D. Noble, 350
- Inman, F. P., and W. J. Mandy (eds.), Contemporary Topics in Molecular Immunology, Vol. 4, 469
- Insect Biochemistry and Function, ed. by D. J. Candy and B. A. Kilby, 147
- Insect Ecology, by P. W. Price, 552
- Insect Muscle, ed. by P. N. R. Usherwood, 147
- Insect Neurobiology, ed. by J. E. Treherne, 554
- Insecticides of the Future, ed. by M. Jacobson, 161
- Insects and Their Young, by R. E. Hutchins, 293
- Intellectual Functioning in the Aged, by R. D. Savage et al., 342
- Intensive Care, by Å. Wåhlin, 196
- Interdisciplinary Environmental Approaches, ed. by A. E. Utton and D. H. Henning, 159
- Interferon, by V. D. Solov'ev and T. A. Bektemirov, 313
- International Review of Cytology, ed. by G. H. Bourne and J. F. Danielli, Vols. 38, 39, 41, 114
- International Review of Experimental Pathology, ed. by G. W. Richter and M. A. Epstein, Vol. 14—1975, 194
- International Review of Neurobiology, ed. by C. C. Pfeiffer and J. R. Smythies, Vol. 17, 184
- Intrinsic Mutagenesis: A Genetic Approach to Ageing, by M. Burnet, 119
- Introduction à l'étude des microarthropodes du sol et de ses annexes, by Y. Coineau, 339
- Introduction to Biochemistry of Fungal Development, an, by J. E. Smith and D. R. Berry, 121
- Introduction to Biorheology, an, by G. W. S. Blair, 208
- Introduction to Forest Genetics, by J. W. Wright, 432
- Introduction to General and Comparative Endocrinology, an, by E. J. W. Barrington, 2nd ed., 540
- Introduction to Genetic Analysis, an, by D. T. Suzuki and A. J. F. Griffiths, 528
- Introduction to Insect Pest Management, ed. by R. L. Metcalf and W. H. Luckmann, 340
- Introduction to Mathematical Biology, by S. I. Rubinow, *lead review*, 417
- Introduction to Modern Virology, by S. B. Primrose, 123
- Introduction to Nematology, by B. G. Chitwood and M. B. Chitwood, 146
- Introduction to Ornithology, an, by G. J. Wallace, 3rd ed., 152
- Introduction to Physiological Psychology, by R. F. Thompson, 344
- Invertebrate Immunity, ed. by K. Maramorosch and R. E. Shope, 547
- Invertebrate Learning, ed. by W. C. Corning, Vol. 3 (Cephalopods and Echinoderms), 342
- Investigation of Oncogenic Viruses: I, ed. by MSS Information Corporation, 353
- Ion Transport in Plant Cells and Tissues, ed. by D. A. Baker and J. L. Hall, 536
- Iosifescu, M., and P. Tăutu, Stochastic Processes and Applications in Biology and Medicine I (Theory), II (Models), 359
- Ixodid Ticks of Kenya, the, by J. B. Walker, 326

J

- Jack, J. J. B., et al., Electric Current Flow in Excitable Cells, 302
- Jacobson, M. (ed.), Insecticides of the Future, 161
- Jaenicke, L. (ed.), Biochemistry of Sensory Functions, 179
- Jagers, P., Branching Processes with Biological Applications, 421
- James, V. H. T., and L. Martini (eds.), Current Topics in Experimental Endocrinology, Vol. 2, 142
- Jameson, D., and L. M. Hurvich, Visual Psychophysics, 346
- Jenkins, M. M., Kangaroos, Opossums, and Other Marsupials, 295
- Johnson, G., and M. Bleifeld, Hunting with the Microscope, 423
- Johnson, W. H., et al., Essentials of Biology, 2nd ed., 97

Jones, D. P., and M. E. Solomon (eds.), *Biology in Pest and Disease Control*, 162

Jones, M. N., *Biological Interfaces*, 109

K

Kachroo, P. (ed.), *Advancing Frontiers of Cytogenetics in Evolution and Improvement of Plants*, 317

Kangaroos, Opossums, and Other Marsupials, by M. M. Jenkins, 295

Kawakami, M. (ed.), *Biological Rhythms in Neuroendocrine Activity*, 206

Kearney, P. C., and D. D. Kaufman (eds.), *Herbicides*, 2nd rev. ed., Vol. 1, 444

Kennedy, C. R., *Ecological Animal Parasitology*, 541

Kent, G. C., *Systematic Dissections of Vertebrates*, 140

Kent, P. W. (ed.), *Membrane-Mediated Information*, Vol. 1 (*Biochemical Functions*), 109

Kerrod, R., *Concise Color Encyclopedia of Science*, 293

Kersten, H., and W. Kersten, *Inhibitors of Nucleic Acid Synthesis*, 428

Khan, M. A. Q., and J. P. Bederka, Jr. (eds.), *Survival in Toxic Environments*, 141

Kindl, H., and G. Wöber, *Biochemie der Pflanzen*, 126

Kinetics of Muscle Contraction, the, by D. C. S. White and J. Thorsom, 524

King, R. C. (ed.), *Handbook of Genetics*, Vol. 1 (*Bacteria, Bacteriophages, and Fungi*), Vol. 2 (*Plants, Plant Viruses, and Protists*), Vol. 3 (*Invertebrates of Genetic Interest*), 304

Kinkead, E., *A Concrete Look at Nature*, 209

Kinne, O. (ed.), *Marine Ecology*, Vol. 2, (*Physiological Mechanisms*), Pts. 1, 2, 332

Kirkpatrick, C. H., and H. Y. Reynolds (eds.), *Immunologic and Infectious Reactions in the Lung*, 469

Kiss, F. A., *Vascularization and Tissue Differentiation*, 144

Klein, G., and S. Weinhouse (eds.), *Advances in Cancer Research*, Vol. 21—1975, 353; Vol. 22—1975, 471

Klein, J., *Biology of the Mouse Histocompatibility-2 Complex*, 307

Kluge, E.-H. W., *The Practice of Death*, 566

Knowles, F., and L. Vollrath (eds.), *Neuro-*

secretion—the Final Neuroendocrine Pathway, 181

Kormondy, E. J., *Concepts of Ecology*, 2nd ed., 549

Körner, S. (ed.), *Explanation*, 518

Kornicker, L. S., *Antarctic Ostracoda (Myodocopina)*, Pts. 1, 2, 451

Kortmulder, K., *A Comparative Study in Colour Patterns and Behaviour in Seven Asiatic Barbus Species (Cyprinidae Ostariophysi, Osteichthyes)*, 176

Kotani, M. (ed.), *Advances in Biophysics*, Vol. 7—1975, 474

Krebs, H., and J. H. Shelley (eds.), *The Creative Process in Science and Medicine*, 290

Kroodsmas, R. L., *Teaching-Learning Guide for Odum's Fundamentals of Ecology*, 157

Kusaka, T., *The Urohyal of Fishes*, 151

Kuznetsova, Z. I. (ed.), *General Ecology—Bocenology—Hydrobiology*, 158

Kvenvolden, K. A. (ed.), *Geochemistry and the Origin of Life*, 117

L

Laboratory Manual of Cell Biology, ed. by D. C. Hall and S. E. Hawkins, 431

Laboratory Techniques in Zoology, 2nd ed., by R. Mahoney, 139

Laget, P., *Biologie et physiologie des éléments nerveux*, 2nd rev. ed., 184

Lake Kariba: A Man-Made Tropical Ecosystem in Central Africa, ed. by E. K. Balon and A. G. Coche, 170

Land Use in Advancing Agriculture, by A. P. A. Vink, 338

Landau, B. R., *Essential Human Anatomy and Physiology*, 470

Last Two Million Years, the, ed. by the Reader's Digest Association, 188

Lauffer, M. A., et al. (eds.), *Advances in Virus Research*, Vol. 19, 437

Lavine, S. A., *The Horses the Indians Rode*, 296

Leake, L. D., *Comparative Histology*, 546

Leakey, L. S. B., *By the Evidence*, 515

Leakey's Luck, by S. Cole, 515

Leaver, R. H., and T. R. Thomas, *Analysis and Presentation of Experimental Results*, 357

Leftwich, A. W., *A Dictionary of Entomology*, 543

Lehrman, D. S., et al. (eds.), *Advances in the Study of Behavior*, Vol. 5, 174

- Les algues, by P. Gayral, 441
- Leslie, R. F., In the Shadow of a Rainbow, 424
- Lett, J. T., and H. Adler (eds.), *Advances in Radiation Biology*, Vol. 5, 358
- LEVANDOWSKY, M., The Cats in Zanzibar, *lead review of* Introduction to Mathematical Biology, by S. K. Rubinow, and Matematicheskoye Modelirovaniye v Biofiske, by Y. M. Romanovsky, 417
- Levere, R. D. (ed.), Sick Cell Anemia and Other Hemoglobinopathies, 200
- Levi-Setti, R., Trilobites, 296
- Levitt, R. A., Psychopharmacology, 345
- Lewin, S., Displacement of Water and Its Control of Biochemical Reactions, 110
- Leyton, L., Fluid Behaviour in Biological Systems, 473
- Li, C. H. (ed.), Hormonal Proteins and Peptides, Vols. 1, 2, 144; Vol. 3, 563
- Libansky, J., and L. Donner (eds.), Present Problems in Haematology, 349
- Lieth, H., and R. H. Whittaker (eds.), Primary Productivity of the Biosphere, 552
- Life-History Tactics: A Review of the Ideas, by S. C. Stearns, *article*, 3
- Life of Birds, the, by J. C. Welty, 327
- Life Science in the Twentieth Century, by G. E. Allen, 290
- Life, Space and Time, by B. Fell, 158
- Light's Manual: Intertidal Invertebrates of the Central California Coast, ed. by R. I. Smith and J. T. Carlton, 3rd ed., 166
- Lih, M. M.-S., Transport Phenomena in Medicine and Biology, 199
- Limbic and Autonomic Nervous System Research, by L. V. Di Cara, 461
- Limbrey, S., Soil Science and Archaeology, 560
- Limnology, by R. G. Wetzel, 453
- Linden, E., Apes, Men, and Language, 463
- Ling, N. R., and J. E. Kay, Lymphocyte Stimulation, rev. ed., 195
- Linskens, H. F. (ed.), Fertilization in Higher Plants, 131
- Lipid Chromatographic Analysis, ed. by G. V. Marinetti, 2nd rev. ed., Vol. 1, 523
- Lipschitz, S., *Flora URSS Fontes (Literaturnye Istochniki po Flore SSSR)*, 534
- Lissák, K. (ed.), Hormones and Brain Function, 180
- Lizard thermoregulation, costs and benefits of, *article*, 363
- Lobster, the, by H. Taylor, 295
- Locomotion of Soft-Bodied Animals, the, by E. R. Trueman, 452
- Loehlin, J. C., et al., Race Differences in Intelligence, *commentary*, 85
- Looking at Animals, by H. B. Cott, 445
- Loomis, W. F., *Dictyostelium discoideum*, 121
- Losing Ground, by E. P. Eckholm, 561
- Löve, Å., and D. Löve, Plant Chromosomes, 530
- Lovell, B., Man's Relation to the Universe, 464
- Lowe, J., and D. P. Stanfield, The Flora of Nigeria: Sedges (Family Cyperaceae), 443
- Lowe-McConnell, R. H., Fish Communities in Tropical Freshwaters—Their Distribution, Ecology, and Evolution, 550
- Lowenstein, O. (ed.), *Advances in Comparative Physiology and Biochemistry*, Vol. 6, 344
- Lozina-Lozinskii, L. K., Studies in Cryobiology, 208
- Lucas, J., Our Polluted Food, 340
- Ludwig, D., Stochastic Population Theories, 163
- Luft, R., and K. Hall (eds.), *Advances in Metabolic Disorders*, Vol. 8 (Somatomedins and Some Other Growth Factors), 468
- Luria, S. E., 36 Lectures in Biology, 99
- Lymphocyte Stimulation, by N. R. Ling and J. E. Kay, 195
- Lysosomes, Glyoxysomes, Peroxisomes, by P. Mazliak, 430
- Lysosomes in Biology and Pathology 4, ed. by J. T. Dingle and R. T. Dean, 469
- Lytic Compartment of Plant Cells, the, by Ph. Matile, 430
- M
- Macdonald, A. G., Physiological Aspects of Deep Sea Biology, 453
- Magaard, L., and G. Rheinheimer (eds.), *Meereskunde der Ostsee*, 166
- Mahoney, R., Laboratory Techniques in Zoology, 2nd ed., 139
- Mahy, B. W. J., and R. D. Barry (eds.), Negative Strand Viruses, Vols. 1, 2, 311
- Malamud, N., and A. Hirano, Atlas of Neuropathology, 2nd ed., 180
- Males, females larger than (mammals), *article*, 245
- Malins, D. C., and J. R. Sargent (eds.), Biochemical and Biophysical Perspectives in Marine Biology, Vol. 1, 164; Vol. 2, 454
- Mammalian aging, regulation of physiological changes during, *article*, 49
- Mammalian Kidney, the, by D. B. Moffat, 540

- Mammals in Which Females Are Larger than Males, by K. Ralls, *article*, 245
- Mammals of Canada, the, by A. W. F. Banfield, 155
- Mammals of New Mexico, by J. S. Findley et al., 155
- Mammals of the World, by E. P. Walker et al. (rev. by J. L. Paradiso), 3rd ed., Vols. 1, 2, 154
- Man and Animals in Hot Environments, by D. L. Ingram and L. E. Mount, 452
- Man and His Environment: Citizen Action, by E. Fanning, 168
- Man and His Environment: Policy and Administration, by L. K. Caldwell, 168
- Man and the Natural World, by C. J. Goin and O. B. Goin, 97
- Man-Made Lakes and Human Health, ed. by N. F. Stanley and M. P. Alpers, 565
- Man, Nature, and Society, by T. W. Pohrte and L. J. Pierce, 519
- Man, Nature, and Society (Laboratory Manual), by W. W. Reynolds, 519
- Man, Nature, and Society, by E. P. Volpe, 518
- Man's Relation to the Universe, by B. Lovell, 464
- Manual of Anatomy and Physiology, a, by A. B. Donnersberger et al., 470
- Maps of the Incubation and Hopper Development Periods of the Desert Locust, by P. M. Symmons et al., 450
- Maramorosch, K., and R. E. Shope (eds.), Invertebrate Immunity, 547
- Marcelle, R. (ed.), Environmental and Biological Control of Photosynthesis, 323
- Margoulies, M., and F. C. Greenwood (eds.), Structure-Activity Relationships of Protein and Polypeptide Hormones, 466
- Marijuana and Health Hazards, ed. by J. R. Tinklenberg, 563
- Marine Ecology, ed. by O. Kinne, Vol 2 (Physiological Mechanisms), Pts. 1, 2, 332
- Marine Ecology and Fisheries, by D. H. Cushing, 333
- Marinetti, G. V. (ed.), Lipid Chromatographic Analysis, 2nd rev. ed., Vol. 1, 523
- Markert, C. L. (ed.), Isozymes 1 (Molecular Structure), 2 (Physiological Function), 3 (Developmental Biology), 4 (Genetics and Evolution), 107
- Markert, C. L., and J. Papaconstantinou (eds.), The Developmental Biology of Reproduction, 434
- Markham, R., et al. (eds.), Modification of the Information Content of Plant Cells, 318
- Marmots and ground squirrels, hibernation and circannual rhythms of food consumption in, *article*, 477
- Martin, R. (tr.), The Behavioural Physiology of Animals and Man: The Collected Papers of Erich von Holst, Vol. 1, 171
- Martin, R. D., et al. (eds.), Prosimian Biology, 330
- Martinsson, A. (ed.), Evolution and Morphology of the Trilobita, Trilobitoidea and Mero-stomata, 425
- Mašliški, C. (ed.), Histamine, 301
- Mason, H. M., Jr., The Fantastic World of Ants, 294
- Masson et Cie. (ed.), Embryologie chimique et expérimentale, 120
- Masters, C. J., and R. S. Holmes, Haemoglobin, Isoenzymes and Tissue Differentiation, 308
- Matematcheskoye Modelirovaniye v Biofizike (Mathematical Modeling in Biophysics), by Y. M. Romanovsky et al., *lead review*, 417
- Mathematical Models for Cell Rearrangement, ed. by G. D. Mostow, 436
- Mathews, M. B., Connective Tissue, 547
- Mathews, W. W., Atlas of Descriptive Embryology, 2nd ed., 532
- Matile, Ph., The Lytic Compartment of Plant Cells, 430
- Matthews, D. M., and J. W. Payne (eds.), Peptide Transport in Protein Nutrition, 523
- Matthiessen, P., The Wind Birds, 153
- MAYNARD SMITH, J., Group Selection, *commentary on Group Selection in Predator-Prey Communities*, by M. E. Gilpin, 277
- , Models in Ecology, 156
- , The Theory of Evolution, 3rd ed., 432
- Mazliak, P., Lysosomes, Glyoxysomes, Peroxysomes, 430
- McElroy, W. D., et al., Biology and Man, 97
- McEwen, W. E., and K. D. Berlin (eds.), Organophosphorus Stereochemistry, Part 1 [Origins and P(III and IV) Compounds], Part 2 [P(V) Compounds], 302
- Mechanical Design in Organisms, by S. A. Wainwright et al., 567
- Mechanism of Photosynthesis, the, by C. P. Whittingham, 322
- Medical Experimentation: Personal Integrity and Social Policy, by C. Fried, 197
- Medicine in the Tropics, ed. by A. W. Woodruff, 195

- Meereskunde der Ostsee, ed. by L. Magaard and G. Rheinheimer, 166
- Meixner, A., *Chemische Farbreaktionen von Pilzen*, 441
- Meldrum, B. S., and C. D. Marsden (eds.), *Advances in Neurology*, Vol. 10 (Primate Models of Neurological Disorders), 351
- Membranes, ed. by G. Eisenman, Vol. 3 (Lipid Bilayers and Biological Membranes—Dynamic Properties), 526
- Merton, R. K., *The Sociology of Science*, 95
- Messages and Voices, by M. Cosgrove, 425
- Metcalf, R. L., and W. H. Luckmann (eds.), *Introduction to Insect Pest Management*, 340
- Methods in Cell Biology, ed. by D. M. Prescott, Vols. 9, 10, 303
- Methods in Enzymology, ed. by S. P. Colowick and N. O. Kaplan, Vol. 35 (Lipids, Pt. B), 108; Vol. 36 (Hormone Action, Pt. A: Steroid Hormones), 296; Vol. 37 (Hormone Action, Pt. B: Peptide Hormones), 296; Vol. 38 (Hormone Action, Pt. C: Cyclic Nucleotides), 297; Vol. 39 (Hormone Action, Pt. D: Isolated Cells, Tissues, and Organ Systems), 297; Vol. 40 (Hormone Action, Pt. E: Nuclear Structure and Function), 297; Vol. 43 (Antibiotics), 107
- Methods in Olfactory Research, ed. by D. G. Moulton et al., 556
- Methods of Animal Experimentation, Vol. 5 (Nutrition, Aging, and Artificial Organs), ed. by W. I. Gay, 140
- Methods of Studying Plant Water Relations, by B. Slavik, 129
- Meuwissen, H. J., et al. (eds.), *Combined Immunodeficiency Disease and Adenosine Deaminase Deficiency*, 433
- Michaelson, S. M., et al. (eds.), *Fundamental and Applied Aspects of Nonionizing Radiation*, 474
- Michener, C. D., *The Social Behavior of the Bees*, 176
- Microbial Growth, ed. by P. S. S. Dawson, 123
- Microbial Interaction with the Physical Environment, ed. by D. W. Thayer, 437
- Microbial Seascapes, by J. McN. Sieburth, 312
- MICROBIOLOGY, *book reviews*, 123, 311, 436, 533
- Microclimate: The Biological Environment, by N. J. Rosenberg, 336
- Milhorat, A. T., (ed.), *Exploratory Concepts in Muscular Dystrophy II (Control Mechanisms in Development and Function of Muscle and Their Relationship to Muscular Dystrophy and Related Neuromuscular Diseases)*, 566
- Miller, E., *Mousekin's Woodland Birthday*, 293
- Milner, M., *Nutritional Improvement of Food Legumes*, 192
- Minckler, L. S., *Woodland Ecology*, 338
- Mini-Wood Community, by P. G. Howes, 337
- Minnesota Birds, by J. C. Green and R. B. Janssen, 328
- Mites of Moths and Butterflies, by A. E. Treat, 449
- Mitsuda, H., and T. Fukuda (eds.), *Biological Mechanisms of Schizophrenia and Schizophrenia-Like Psychoses*, 564
- Mitsubashi, S. (ed.), *Drug Action and Drug Resistance in Bacteria*, Vol. 2 (Aminoglycoside Antibiotics), 314
- Mode of Action of Immunosuppressive Agents, the, by J.-F. Bach, 563
- Models in Ecology, by J. Maynard Smith, 156
- Modern Cell Biology, by K.-T. Hsieh, 113
- Modern Weed Control, by A. S. Crafts, 341
- Moffat, D. B., *The Mammalian Kidney*, 540
- Mohlenbrock, R. H., *Guide to the Vascular Flora of Illinois*, 441
- Molds, Mushrooms, and Mycotoxins, by C. M. Christensen, 134
- MOLECULAR BIOLOGY, *book reviews*, 106, 296, 426, 522
- Molecular Oxygen in Biology, ed. by O. Hayashi, 429
- Molecular Radiobiology, ed. by N. B. Strazhevskaya, 110
- Mollusca Prosobranchia, by J.-A. Sneli, 146
- Molluscicides in Schistosomiasis Control, ed. by T. C. Cheng, 205
- Moriarty, F. (ed.), *Organochlorine Insecticides: Persistent Organic Pollutants*, 340
- Mostow, G. D. (ed.), *Mathematical Models for Cell Rearrangement*, 436
- Motta, M., et al. (eds.), *Hypothalamic Hormones*, 467
- Moulton, D. G., et al. (eds.), *Methods in Olfactory Research*, 556
- Mountain Sheep and Man in the Northern Wilds, by V. Geist, 348
- Mousekin's Woodland Birthday, by E. Miller, 293
- Moyer, K. E. (ed.), *Aggressive Behavior*, Vol. 1, Nos. 1—1974, 2—1975, 173
- MSS Information Corporation (ed.), *Enzyme*

- Induction in Aging and Protein Synthesis, 468
- (ed.), Investigation of Oncogenic Viruses: I, 353
- (ed.), Neonatal Hormone Treatment and Adult Sexual Behavior in Rodents, 143
- (ed.), Non-Sexual Hormonal Influences on the Electrophysiology of the Brain, 185
- (ed.), Pheromones I: Current Research, 346
- (ed.), Resolution, Properties, and Genetic Aspects of Complement, 196
- Mudd, J. B., and T. T. Kozlowski (eds.), Responses of Plants to Air Pollution, 551
- Muenschner, W. C., Poisonous Plants of the United States, rev. ed., 321
- Mulcahy, D. L. (ed.), Gamete Competition in Plants and Animals, 432
- Muller, P. (ed.), Verhandlungen der Gesellschaft für Ökologie Erlangen—1974, 335
- Mullins, L. J. (ed.), Annual Review of Biophysics and Bioengineering, Vol. 4—1974, 360
- Multivariate Analysis in Vegetation Research, by L. Orlóci, 129
- Multivariate Statistical Methods: Among-Groups Covariation, ed. by W. R. Atchley and E. H. Bryant, 432
- Multivariate Statistical Methods: Within-Group Covariation, ed. by E. H. Bryant and W. R. Atchley, 432
- Munz, P. A., A Flora of Southern California, 533
- Murray, S. B., Seashell Collectors' Handbook and Identifier, 149
- Muscle Physiology, by F. D. Carlson and D. R. Wilkie, 539
- Muscle Proteins, Muscle Contraction and Cation Transport, by Tonomura, 145
- Mycogenetics, by J. H. Burnett, 306
- Myers, R. D., Handbook of Drug and Chemical Stimulation of the Brain, 182
- Mystery of the Mind, the, by W. Penfield, 341
- N
- Nair, P. K. K., Glimpses in Plant Research, Vol. 2 (Studies in Plant Biology—A Palynological Approach), 320
- Nalbandov, A. V., Reproductive Physiology of Mammals and Birds, 434
- National Academy of Sciences (U.S.) (ed.), Productivity of World Ecosystems, 167
- National Parks of the World, ed. by K. Curry-Lindahl and J.-P. Harroy, Vol. 2 (Africa, Asia, Australasia, and Oceania), 210
- Natural History (ed.), Ants, Indians, and Little Dinosaurs, 101
- Natural Resource Conservation, by O. S. Owen, 2nd ed., 160
- Naturalist in Britain, the, by D. E. Allen, 516
- Naunton, R. F. (ed.), The Vestibular System, 555
- Neill, W. T., Reptiles and Amphibians in the Service of Man, 102
- Nelson, B., Azraq: Desert Oasis, 333
- Neonatal Hormone Treatment and Adult Sexual Behavior in Rodents, MSS Information Corporation, 143
- Neumann, F., et al., Androgens II and Antiandrogens, 564
- NEURAL SCIENCES AND BEHAVIOUR, book reviews, 171, 341, 457, 553
- Neurath, H., and R. L. Hill (eds.), The Proteins, 3rd ed., Vol. 1, 300
- New Techniques in Biophysics and Cell Biology, ed. by R. H. Pain and B. J. Smith, Vol. 2, 526
- New Trends in Integrated Science Teaching, ed. by P. E. Richmond, Vol. 2, 356
- Newberne, P. M. (ed.), Trace Substances and Health, 564
- Newcombe, D. S., Inherited Biochemical Disorders and Uric Acid Metabolism, 528
- Neyman, J. (ed.), The Heritage of Copernicus: Theories "Pleasing to the Mind," 95
- Nicholas, W. L., The Biology of Free-Living Nematodes, 451
- Nieschlag, E. (ed.), Immunization with Hormones in Reproduction Research, 435
- Nisonoff, A., et al., The Antibody Molecule, 106
- Nitrogen Fixation in Bacteria and Higher Plants, by R. C. Burns and R. W. F. Hardy, 523
- Niu, M. C., and S. J. Segal (eds.), The Role of RNA in Reproduction and Development, 121
- Noback, C. R., The Human Nervous System, 460
- Noble, D., The Initiation of the Heartbeat, 350
- Non-Sexual Hormonal Influences on the Electrophysiology of the Brain, ed. by MSS Information Corporation, 185
- Nonverbal Communication, ed. by S. Weitz, 190
- Norman, J. R., A History of Fishes, 3rd rev. ed. (ed. by P. H. Greenwood), 150

- Northcote, D. H. (ed.), *Plant Biochemistry*, 443
 Novae Plantarum Species Praesertim Indiae Orientalis, by A. G. Roth, 318
 Nuclear Explosions and Earthquakes, by B. A. Bolt, 426
 Nye, I. W. B., *The Generic Names of Moths of the World*, Vol. 1 [Noctuoidea (part): Noctuidae, Agaristidae, and Nolidae], 544
 Nygaard, O. F., et al. (eds.), *Radiation Research*, 568

O

- Oakley, K. P., et al. (eds.), *Catalogue of Fossil Hominids*, Part 3 (Americas, Asia, Australasia), 347
 O'Connor, M., and F. P. Woodford, *Writing Scientific Papers in English*, 208
 Oddball Fishes and Other Strange Creatures of the Deep, by B. Walker, 447
 Odonata of Canada and Alaska, the, by E. M. Walker and P. S. Corbet, Vol. 3, Pt. 3 (The Anisoptera—Three Families), 148
 Oliver, A. P. H., *Guide to Shells*, 542
 Olson, E. C., and J. A. Robinson, *Concepts of Evolution*, 116
 Organochlorine Insecticides: Persistent Organic Pollutants, ed. by F. Moriarty, 340
 Organophosphorus Stereochemistry, Pt. 1 [Origins and P(III and IV) Compounds], Pt. 2 [P(V) Compounds], ed. by W. W. McEwen and K. D. Berlin, 302
 Orlóci, L., *Multivariate Analysis in Vegetation Research*, 129
 Ornithology, by E. Stresemann, 292
 Orr, R. T., *Vertebrate Biology*, 4th ed., 546
 Osserman, E. F., et al. (eds.), *Lysozyme*, 528
 Ostfeld, A. M., and D. C. Gibson (eds.), *Epidemiology of Aging*, 203
 Our Geological Environment, by J. S. Watkins, et al., 103
 Our Polluted Food, by J. Lucas, 340
 Owen, O. S., *Natural Resource Conservation*, 160
 Oxnard, C. E., *Uniqueness and Diversity in Human Evolution: Morphometric Studies of Australopithecines*, 187

P

- Pacific Insects, by D. E. Hardy, *Monograph—31 (The Fruit Flies—Tephritidae, Diptera of Thailand and Bordering Countries)*,
Monograph 32 (The Fruit Flies of the Philippines), 324
 Packer, L. (ed.), *Biomembranes*, 303
 Page, N. M., and R. E. Weaver, Jr., *Wild Plants in the City*, 321
 Pain, Vol. 1, No. 1—March 1975, ed. by P. D. Wall, 196
 Pain, R. H., and B. J. Smith (eds.), *New Techniques in Biophysics and Cell Biology*, Vol. 2, 526
 Palaeobiology of Angiosperm Origins, by N. F. Hughes, 520
 PALEONTOLOGY AND EARTH SCIENCES, *book reviews*, 103, 296, 425, 519
Paramecium, ed. by W. J. Van Wagtendonk, 145
 Parent Birds and Their Young, by A. F. Skutch, 545
 Parke, W. W., *Photographic Atlas of Fetal Anatomy*, 347
 Parker, R. H., *The Study of Benthic Communities*, 165
 Parnall, P., *Alfalfa Hill*, 425
 Parsons, D. S. (ed.), *Biological Membranes*, 526
 Patent, D. H., *How Insects Communicate*, 424
 Pathogenic and Non-Pathogenic Amoebae, by B. N. Singh, 533
 Patten, B. C. (ed.), *Systems Analysis and Simulation in Ecology*, Vol. 3, 456
 Patterns in Biology, by D. Harrison, 292
 Peaker, M., and J. L. Linzell, *Salt Glands in Birds and Reptiles*, 153
 Peat in Horticulture, ed. by D. W. Robinson and J. G. D. Lamb, 537
 Penfield, W., *The Mystery of the Mind*, 341
 Penry, J. K., and D. D. Daly (eds.), *Advances in Neurology*, Vol. 11 (Complex Partial Seizures and Their Treatment), 471
 Peptide Transport in Protein Nutrition, ed. by D. M. Matthews and J. W. Payne, 523
 Pest Control: A Survey, by A. Woods, 162
 Pfeiffer, C. C., and J. R. Smythies (eds.), *International Review of Neurobiology*, Vol. 17, 184
 Phagocytic Engulfment and Cell Adhesiveness as Cellular Surface Phenomena, by C. J. van Oss et al., 525
 Pharmacological Basis of Therapeutics, the, ed. by L. S. Goodman and A. Gilman, 5th ed., 469
 Pheromones I, ed. by MSS Information Corporation, 346
 Photographic Atlas of Fetal Anatomy, by W. W. Parke, 347

- Photoprocesses, Photoreceptors, and Evolution, by J. J. Wolken, 459
- Photosynthesis Bibliography, ed. by Z. Šesták and J. Čatský, Vol. 2—1971, 323
- Photosynthetic Activity, Mineral Nutrition, and Plant Productivity, by D. A. Alyev, 536
- Physics for Biologists, by G. Duncan, 207
- Physiological Aspects of Deep Sea Biology, by A. G. Macdonald, 453
- Physiological changes during mammalian aging, *article*, 49
- Physiology of Bone, the, by J. Vaughan, 2nd ed., 547
- Physiology of Giant Algal Cells, the, by A. B. Hope and N. A. Walker, 133
- Phytochrome and Photomorphogenesis, by H. Smith, 323
- Pickett-Heaps, J. D., Green Algae, 132
- Pielou, E. C., Ecological Diversity, 336
- , Population and Community Ecology, 157
- Pimentel, D. (ed.), Insects, Science, and Society, 324
- Placenta and Its Maternal Supply Line, the, ed. by P. Gruenwald, 464
- Plant Biochemistry, ed. by D. H. Northcote, 443
- Plant Chromosomes, by Á. Löve and D. Löve, 530
- Plant Hunters, the, by B. J. Healey, 125
- Plant Mineral Nutrition, by E. J. Hewitt and T. A. Smith, 536
- Plant Propagation, by H. T. Hartmann and D. E. Kester, 537
- Plant Tissue Culture Methods, ed. by O. L. Gamborg and L. R. Wetter, 316
- Plants Consumed by Man, by B. Brouk, 348
- Plants in Saline Environments, ed. by A. Poljakoff-Mayber and J. Gale, 444
- Plasma Proteins, the, ed. by F. W. Putnam, 2nd ed., Vol. 1, 465; Vol. 2, 523
- Pohrte, T. W., and L. J. Pierce, Man, Nature, and Society, 519
- Poisonous Plants of the United States, by W. C. Muenscher, rev. ed., 321
- Poljakoff-Mayber, A., and J. Gale (eds.), Plants in Saline Environments, 444
- Pollen, by R. G. Stanley and H. F. Linskens, 130
- Population and Community Ecology, by E. C. Pielou, 157
- Positive Staining for Electron Microscopy, by M. A. Hayat, 358
- Practical Methods in Electron Microscopy, ed. by A. M. Glauert, Vol. 3, Pt. 1 (Fixation, Dehydration and Embedding of Biological Specimens), Pt. 2 (Ultramicrotomy), 207
- Practice of Death, the, by E.-H. W. Kluge, 566
- Preschool IQ, by S. Broman et al., 190
- Prescott, D. M. (ed.), Methods in Cell Biology, Vols. 9, 10, 303
- Pribram, K. H., and A. R. Luria (eds.), Psychophysiology of the Frontal Lobes, 183
- Price, D. de S., Science Since Babylon, enl. ed., 94
- Price, N. C., and R. A. Dwek, Principles and Problems in Physical Chemistry for Biochemists, 111
- Price, P. W. (ed.), Evolutionary Strategies of Parasitic Insects and Mites, 531
- , Insect Ecology, 552
- Pridham, J. B. (ed.), Plant Carbohydrate Biochemistry, 127
- Primary Productivity of the Biosphere, ed. by H. Lieth and R. H. Whittaker, 552
- Primate Aggression, Territoriality, and Xenophobia, ed. by R. L. Holloway, 457
- Primate Behavior, ed. by L. A. Rosenblum, Vol. 4 (Developments in Field and Laboratory Research), 347
- Primitive war, a review of, *article*, 385
- Primrose, S. B., Introduction to Modern Virology, 123
- Principles and Problems in Physical Chemistry for Biochemists, by N. C. Price and R. A. Dwek, 111
- Principles and Techniques of Electron Microscopy, ed. by M. A. Hayat, Vol. 5 (Biological Applications), 208
- Principles and Techniques of Scanning Electron Microscopy, ed. by M. A. Hayat, Vols. 3, 4 (Biological Applications), 358
- Principles of Comparative Respiratory Physiology, by P. Dejours, 137
- Principles of Fishery Science, by W. H. Everhart et al., 332
- Principles of Plant Infection, by J. E. Van der Plank, 130
- Problems of Evolution, ed. by N. N. Vorontsov, Vols. 3, 4, 115
- Producing Your Own Power, ed. by C. H. Stoner, 355
- Progress in Botany 36, ed. by H. Ellenberg et al., 319
- Progress in Chemical Toxicology, ed. by A. Stolman, 202
- Progress in Nucleic Acid Research and Molecu-

- lar Biology, ed. by W. E. Cohn, Vol. 15—1975, 299
- Progress in Theoretical Biology, ed. by R. Rosen and F. M. Snell, Vol. 3, 206
- Proteins, the, by H. Neurath et al., 3rd ed., Vol. 1, 300
- Psychobiology of Curt Richter, the, ed. by E. M. Blass, 459
- Psychopharmacology, by R. A. Levitt, 345
- Psychopharmacology Communications, ed. by E. Usdin, Vol. 1, No. 1—1975, 463
- Psychophysiology of the Frontal Lobes, ed. by K. H. Pribram and A. R. Luria, 183
- Pulmonates, ed. by V. Fretter and J. Peake, Vol. 1 (Functional Anatomy and Physiology), 149
- Purves, M. J. (ed.), The Peripheral Arterial Chemoreceptors, 557
- Putnam, F. W. (ed.), The Plasma Proteins, 2nd ed., Vol. 1, 465; Vol. 2, 523
- R**
- Rabinowitz, D., and J. Roth (eds.), Heterogeneity of Polypeptide Hormones, 467
- Race Differences in Intelligence, by J. C. Loehlin et al., *commentary*, 85
- Radford, A. E., et al., Vascular Plant Systematics, 126
- Radiotracer Methodology in the Biological, Environmental, and Physical Sciences, by C. H. Wang et al., 474
- Rahn, J. E., Biology: The Science of Life, 98
- Ralls, K., Mammals in Which Females Are Larger than Males, *article*, 245
- Raphael, D. (ed.), Being Female, 464
- Raw, I., Anemia, 349
- Rayle, D., and L. Wedberg, Botany: A Human Concern, 125
- Reader's Digest Association (ed.), The Last Two Million Years, 188
- Readings in Behavior, ed. by W. Van der Kloot et al., 175
- Readings in Wildlife Conservation, ed. by J. A. Bailey et al., 163
- Receptor-Specific Proteins, by E. R. Gold and P. Balding, 527
- Regulation of Physiological Changes during Mammalian Aging, the, by C. E. Finch, *article*, 49
- REPRODUCTION AND DEVELOPMENT, *book reviews*, 119, 308, 434, 531
- Reproduction in Man and His Ancestors—for 700 Million Years, by R. Torpin, 531
- Reproduction of Marine Invertebrates, ed. by A. C. Giese and J. S. Pearse, Vol. 2 (Entoprocts and Lesser Coelomates), 145; Vol. 3 (Annelids and Echiurans), 326
- Reproductive Physiology of Mammals and Birds, by A. V. Nalbandov, 434
- Reptiles and Amphibians in the Service of Man, by W. T. Neill, 102
- Resistance of *Pseudomonas aeruginosa*, ed. by M. R. W. Brown, 437
- Resolution, Properties, and Genetic Aspects of Complement, ed. by MSS Information Corporation, 196
- Resource Competition and Human Aggression, Part I: A Review of Primitive War, by W. H. Durham, *article*, 385
- Responses of Plants to Air Pollution, ed. by J. B. Mudd and T. T. Kozłowski, 551
- Retherford, R. D., The Changing Sex Differential in Mortality, 560
- Review of Child Development Research, ed. by F. D. Horowitz, Vol. 4, 559
- Review of primitive war, *article*, 385
- Review of the Family Centropomidae (Pisces, Perciformes), a, by P. H. Greenwood, 544
- Revised Key to the British Species of Crustacea: Malacostraca Occurring in Fresh Water with Notes on Their Ecology and Distribution, a, by T. Gledhill et al., 543
- Revision of the Leucospidae (Hymenoptera: Chalcidoidea) of the World, a, by Z. Bouček, 324
- Reynolds, W. W., Man, Nature, and Society (Laboratory Manual), 519
- Rhabditida und Ascaridida, by G. Hartwich, 541
- Rheinheimer, G., Aquatic Microbiology, 312
- Rheometry, by K. Walters, 473
- Rhesus Haemolytic Disease, ed. by C. A. Clarke, 470
- Rhodin, J. A. G., An Atlas of Histology, 351
- Rhythms (circannual) of food consumption in marmots and ground squirrels, hibernation and, *article*, 477
- Ribelin, W. E., and G. Migaki (eds.), The Pathology of Fishes, 150
- Richmond, P. E. (ed.), New Trends in Integrated Science Teaching, Vol. 2, 356
- Richter, G. W., and M. A. Epstein (eds), International Review of Experimental Pathology, Vol. 14—1975, 194

- Rickenberg, H. V. (ed.), *Biochemistry of Hormones*, 112
- Ricker, W. E., *Computation and Interpretation of Biological Statistics of Fish Populations*, 332
- Ricklefs, R. E., *The Economy of Nature*, 548
- Robards, A. W. (ed.), *Dynamic Aspects of Plant Ultrastructure*, 316
- Robinson, D. W., and J. G. D. Lamb (eds.), *Peat in Horticulture*, 537
- Robinson, G. O., *The Forest Service*, 464
- Rodents of Uganda, the, by M. J. Delany, 446
- Romanovsky, Y. M., et al., *Matematicheskoye Modelirovaniye v Biofizike (Mathematical Modeling in Biophysics)*, *lead review*, 417
- Rosalind Franklin and DNA, by A. Sayre, *lead review*, 285
- Rose, A. H., and D. W. Tempest (eds.), *Advances in Microbial Physiology*, Vol. 12, 438
- Rosen, R., and F. M. Snell (eds.), *Progress in Theoretical Biology*, Vol. 3, 206
- Rosenberg, G. D., and S. K. Runcorn (eds.), *Growth Rhythms and the History of the Earth's Rotation*, 519
- Rosenberg, N. J., *Microclimate: The Biological Environment*, 336
- Rosenblum, L. A. (ed.), *Primate Behavior*, Vol. 4 (Developments in Field and Laboratory Research), 347
- Rosevear, D. R., *The Carnivores of West Africa*, 155
- Ross, A., and W. K. Emerson, *Wonders of Barnacles*, 424
- Roth, A. G., *Novae Plantarum Species Praesertim Indiae Orientalis*, 318
- Rowlands, I. W., and B. J. Weir (eds.), *The Biology of Hystricomorph Rodents*, 156
- Rubinow, S. I., *Introduction to Mathematical Biology*, *lead review*, 417
- Russell, C. S. (ed.), *Ecological Modeling*, 455
- Russell, F. S., and M. Yonge, *The Seas*, 331
- Russell, S. P., *The Crusty Ones*, 102
- Russell, W. R., *Explaining the Brain*, 557
- S
- Sage, B. L., *Alaska and Its Wildlife*, 169
- Salt Glands in Birds and Reptiles, by M. Peaker and J. L. Linzell, 153
- Sandved, K. B., *Butterfly Magic*, 209
- Santini, M. (ed.), *Golgi Centennial Symposium: Perspectives in Neurobiology*, 462
- Savage, R. D., et al., *Intellectual Functioning in the Aged*, 342
- Sayre, A., *Rosalind Franklin and DNA*, 285
- Schein, M. W. (ed.), *Social Hierarchy and Dominance*, 345
- Schlessinger, D. (ed.), *Microbiology—1974*, 312
- Schmidt, G. H., *Sozialpolymorphismus bei Insekten*, 450
- Schmidt-Nielsen, K., *Animal Physiology*, 137
- Schmithüsen, J. (ed.), *Biogeographica*, Vol. 5, Pt. 1 (Die Molluskenfauna des Vogelsberges unter Besonderer Berücksichtigung Biogeographischer Aspekte), Pt. 2 (Die Wassermollusken des Einzugsgebietes der Nahe), 542
- Schmitt, F. O. et al. (eds.), *Functional Linkage in Biomolecular Systems*, 427
- Schmitt, F. O., et al. (eds.), *Neurosciences Research Symposium Summaries*, Vol. 7, 186
- Schreiber, E. A., and R. W. Schreiber, *Wonders of Sea Gulls*, 423
- Schultz, J., and R. C. Leif (eds.), *Critical Factors in Cancer Immunology*, 353
- Schwartz, V., *Vergleichende Entwicklungsgeschichte der Tiere*, 120
- Science since Babylon, by D. de S. Price, *enl. ed.*, 94
- Scientific American* (ed.), *Animal Engineering*, 141
- (ed.), *Immunology*, 563
- Scott, J. P., *Aggression*, 2nd rev. ed., 458
- Sea Shells of the West Indies, by M. Humfrey, 542
- Seas, the, by F. S. Russell and M. Yonge, 331
- Sea's Harvest, the, by J. E. Brown, 294
- Seashell Collector's Handbook and Identifier, by S. B. Murray, 149
- Sedum* of North America North of the Mexican Plateau, by R. T. Clausen, 444
- Segel, I. H., *Enzyme Kinetics*, 106
- Sela, M. (ed.), *The Antigens*, Vol. 3, 352
- Selected Papers in Tumor Virology, ed. by J. Tooze and J. Sambrook, 194
- Selectivity of Drugs, the, by A. Albert, 203
- Seligmann, M., et al. (eds.), *Membrane Receptors of Lymphocytes*, 469
- Sensory Neurophysiology, with Special Reference to the Cat, by J. C. Boudreau and C. Tsuchitani, 178
- Sensory Reception, by Ya. A. Vinnikov, 178
- Sequential Medical Trials, by P. Armitage, 2nd ed., 567
- Serological Tests for the Identification of Plant Viruses, by E. M. Ball, 440

- Šesták, Z. and J. Čatský (eds.), *Photosynthesis Bibliography*, Vol. 2—1971, 323
- Shell Collector's Guide, by R. H. Fair, 542
- Sherman, I. W., and V. G. Sherman, *Biology*, 97
- Shoot Apex and Leaf Growth, the, by R. F. Williams, 128
- Siamang in Malaya, the, by D. J. Chivers, 330
- Siamese Fighting Fish: Its Life Cycle, the, by W. White, Jr., 151
- Sieburth, J. McN., *Microbial Seascapes*, 312
- Silver, A., *The Biology of Cholinesterases*, 142
- Silvestri, L. G. (ed.), *The Immunological Basis of Connective Tissue Disorders*, 204
- Simon, H., *Snakes*, 294
- Simple Key to the Northern European Species of Terebellomorphe Polychaeta, a, by T. Holthe, 146
- Singer, P., *Animal Liberation*, 562
- Singer, R., *The Agaricales in Modern Taxonomy*, 3rd rev. ed., 535
- Singh, B. N., *Pathogenic and Non-Pathogenic Amoebae*, 533
- Single-Cell Protein II, ed. by S. R. Tannenbaum and D. I. C. Wang, 315
- Sinha, V. R. P., and J. W. Jones, *The European Freshwater Eel*, 544
- Skutch, A. F., *Parent Birds and Their Young*, 545
- Slack, J. M., and M. A. Gerencser, *Actinomyces: Filamentous Bacteria*, 123
- SLATKIN, M. [with R. B. HUEY], *Costs and Benefits of Lizard Thermoregulation, article*, 363
- Slavik, B., *Methods of Studying Plant Water Relations*, 129
- Smith, H., *Phytochrome and Photomorphogenesis*, 323
- Smith, J. E., and D. R. Berry, *An Introduction to Biochemistry of Fungal Development*, 121
- , and — (eds.), *The Filamentous Fungi*, Vol. 1 (Industrial Mycology), 320
- Smith, R. F., et al. (eds.), *Annual Review of Entomology*, Vol. 20, 325
- Smith, R. I., and J. T. Carlton (eds.), *Light's Manual: Intertidal Invertebrates of the Central California Coast*, 3rd ed., 166
- Smith-Keary, P. F., *Genetic Structure and Function*, 117
- Snakes, by H. Simon, 294
- Sneli, J.-A., *Mollusca Prosobranchia*, 146
- Snyder, A. W., and R. Menzel (eds.), *Photoreceptor Optics*, 459
- Snyder, S. H., and S. Matthyse, *Opiate Receptor Mechanisms*, 344
- Social Animal, the, 2nd ed., by E. Aronson, 554
- Social Behavior of the Bees, the, by C. D. Michener, 176
- Social Hierarchy and Dominance, ed. by M. W. Schein, 345
- Sociobiology, by E. O. Wilson, *lead review*, 89
- Sociology of Science, the, by R. K. Merton, 95
- Soil Science and Archaeology, by S. Limbrey, 560
- Sokoloff, A., *The Biology of Tribolium*, with Special Emphasis on Genetic Aspects, Vol. 2, 148
- Solov'ev, V. D., and T. A. Bektimirov, *Interferon*, 313
- Sozialpolymorphismus bei Insekten, ed. by G. H. Schmidt, 450
- Spedding, C. R. W., *The Biology of Agricultural Systems*, 562
- Spin Labeling, ed. by L. J. Berliner, 562
- Spoczynska, J. O. I., *The World of the Wasp*, 544
- Stanford, A. L., Jr., *Foundations of Biophysics*, 207
- Stanley, N. F., and M. P. Alpers (eds), *Man-Made Lakes and Human Health*, 565
- Stanley, R. G., and H. F. Linskens, *Pollen*, 130
- Stauffer, R. C. (ed.), *Charles Darwin's Natural Selection*, 93
- STEARNS, S. C., *Life-History Tactics: A Review of the Ideas, article*, 3
- Stein, G. S., and L. J. Kleinsmith (eds.), *Chromosomal Proteins and Their Role in the Regulation of Gene Expression*, 529
- Stein, Z., et al., *Famine and Human Development*, 191
- Stenesh, J., *Dictionary of Biochemistry*, 524
- Steroid Hormones, ed. by R. I. Dorfman, 201
- Steyaert, T. A., *Biology*, 96
- Stochastic Population Theories, by D. Ludwig, 163
- Stochastic Processes and Applications in Biology and Medicine I (Theory), II (Models), by M. Iosifescu and P. Tăutu, 359
- Stolman, A. (ed.), *Progress in Chemical Toxicology*, Vol. 5, 202
- Stoner, C. H. (ed.), *Producing Your Own Power*, 355
- Strausfeld, N. J., *Atlas of an Insect Brain*, 555
- Strazhevskaya, N. B. (ed.), *Molecular Radiobiology*, 110
- Stresemann, E., *Ornithology*, 292

- Structural Materials in Animals, by C. H. Brown, 547
- Structure of Human Populations, the, ed. by G. A. Harrison and A. J. Boyce, *commentary*, 85
- Stryer, L., *Biochemistry*, 426
- Stubbings, H. G., *Balanus balanoides*, 543
- Studies in Cryobiology, by L. K. Lozina-Lozinskii, 208
- Studies on Higher Fungi, ed. by H. E. Bigelow and H. D. Thiers, 441
- Study of Benthic Communities, the, by R. H. Parker, 165
- Study of Trace Fossils, the, ed. by R. W. Frey, 521
- Surtsey, by S. Fridriksson, 420
- Suzuki, D. T., and A. J. F. Griffiths, *An Introduction to Genetic Analysis*, 528
- Symmons, P. M., et al., *Maps of the Incubation and Hopper Development Periods of the Desert Locust*, 450
- Symposia:
- Against Pollution and Hunger, ed. by A. M. Hilton, 193
 - Aging, ed. by H. Brody et al., Vol. 1 (Clinical, Morphologic, and Neurochemical Aspects in the Aging Central Nervous System), 558
 - Being Female, ed. by D. Raphael, 464
 - Biochemistry of Sensory Functions, ed. by L. Jaenicke, 179
 - Biologic Effects and Health Hazards of Microwave Radiation, ed. by P. Czerski et al., 471
 - Biology in Pest and Disease Control, ed. by D. P. Jones and M. E. Solomon, 162
 - Biomembranes, ed. by L. Packer, 303
 - Biophysical Ecology, Perspectives of, ed. by D. M. Gates and R. B. Schmerl, 456
 - Brain Mechanisms in Mental Retardation, ed. by N. A. Buchwald and M. A. B. Brazier, 460
 - Cancer Immunology, Critical Factors in, ed. by J. Schultz and R. C. Leif, 353
 - Carcinogenesis, Special Topics in, ed. by E. Grundmann, 194
 - Cell Patterning, ed. by Ciba Foundation, 112
 - Chemistry and Biochemistry of Plant Lipids, Recent Advances in the, ed. by T. Galliard and E. I. Mercer, 439
 - Chromosomal Proteins and Their Role in the Regulation of Gene Expression, ed. by G. S. Stein and L. J. Kleinsmith, 529
 - Chronobiological Aspects of Endocrinology, ed. by J. Aschoff et al., 349
 - Coevolution of Animals and Plants, ed. by L. E. Gilbert and P. H. Raven, 431
 - Cold Spring Harbor Symposia on Quantitative Biology, Vol. 39 (Tumor Viruses), Pts. 1, 2, ed. by Cold Spring Harbor Laboratory, 311
 - Combined Immunodeficiency Disease and Adenosine Deaminase Deficiency, ed. by H. J. Meuwissen et al., 433
 - Comparative Endocrinology, Trends in, ed. by E. J. W. Barrington, 447
 - Comparative Physiology, ed. by L. Bolis et al., 539
 - Compound Eye and Vision of Insects, the, ed. by G. A. Horridge, 554
 - Control Processes in Virus Multiplication, ed. by D. C. Burke and W. C. Russell, 111
 - Creative Process in Science and Medicine, the, ed. by H. Krebs and J. H. Shelley, 290
 - Cybernetics and Systems Research, Progress in, ed. by R. Trappl and F. de P. Hanika, Vol. 1 (General Systems, Engineering Systems, Biocybernetics and Neural Systems), Vol. 2 (Socio-Economic Systems, Cybernetics of Cognition and Learning Systems Education, Cybernetics in Organization and Management, and Special Aspects), 354
 - Cytogenetics in Evolution and Improvement of Plants, Advancing Frontiers of, ed. by P. Kachroo, 317
 - Developmental Biology of Reproduction, the, ed. by C. L. Markert and J. Papaconstantinou, 434
 - Drugs and the Developing Brain, ed. by A. Vernadakis and N. Weiner, 179
 - Early Development of Mammals, the, ed. by M. Balls and A. E. Wild, 309
 - Ecological Modeling, ed. by C. S. Russell, 455
 - Ecology, Unifying Concepts in, ed. by W. H. van Dobben and R. H. Lowe-McConnell, 549
 - Energy Transformation in Biological Systems, ed. by Ciba Foundation, 522
 - Environmental and Biological Control of

- Photosynthesis, ed. by R. Marcelle, 323
- Enzyme Regulation, *Advances in*, Vol. 11, ed. by G. Weber, 198
- Epidemiology of Aging, ed. by A. M. Ostfeld and D. C. Gibson, 203
- Erythrocyte Structure and Function, ed. by G. J. Brewer, 200
- Estuarine Research, ed. by L. E. Cronin, Vol. 1 (Chemistry, Biology, and the Estuarine System), 452; Vol. 2 (Geology and Engineering), 550
- Evolutionary Strategies of Parasitic Insects and Mites, ed. by P. W. Price, 531
- Fertility Control Methods, ed. by G. W. Duncan et al., 189
- Fertilization in Higher Plants, ed. by H. F. Linskens, 131
- Fish Protein Concentrate, the Economics, Marketing, and Technology of, ed. by S. R. Tannenbaum et al., 360
- Fluid Environment of the Brain, ed. by H. F. Cserr et al., 343
- Fungal Spore, the, ed. by D. J. Weber and W. M. Hess, 538
- Gamete Competition in Plants and Animals, ed. by D. L. Mulcahy, 432
- Genetics and Biogenesis of Mitochondria and Chloroplasts, ed. by C. W. Birky, Jr., et al., 527
- Golgi Centennial Symposium: Perspectives in Neurobiology, ed. by M. Santini, 462
- Growth Rhythms and the History of the Earth's Rotation, ed. by G. D. Rosenberg and S. K. Runcorn, 519
- Haematology, Present Problems in, ed. by J. Libánský and L. Donner, 349
- High-Quality Protein Maize, ed. by L. F. Bauman et al., 317
- Histamine, ed. by C. Másliński, 301
- Hormonal Regulation of Spermatogenesis, ed. by F. S. French et al., 532
- Hormones and Brain Function, ed. by K. Lissák, 180
- Human Rights in Health, ed. by Ciba Foundation, 193
- Hypothalamic Hormones, ed. by M. Motta et al., 467
- Hystricomorph Rodents, the Biology of, ed. by I. W. Rowlands and B. J. Weir, 156
- Immunization with Hormones in Reproduction Research, ed. by E. Nieschlag, 435
- Immunodeficiency in Man and Animals, ed. by D. Bergsma, 352
- Immunological Basis of Connective Tissue Disorders, the, ed. by L. G. Silvestri, 204
- Insects, Science, and Society, ed. by D. Pimentel, 324
- Interferon, Effects of, on Cells, Viruses and the Immune System, ed. by A. Geraldès, 351
- Isozymes I (Molecular Structure), II (Physiological Function), III (Developmental Biology), IV (Genetics and Evolution), ed. by C. L. Markert, 107
- Lysozyme, ed. by E. F. Osserman et al., 528
- Membrane-Mediated Information, ed. by P. W. Kent, Vol. 1 (Biochemical Functions), 109
- Membrane Receptors of Lymphocytes, ed. by M. Seligmann et al., 469
- Membrane Transport in Plants, ed. by U. Zimmermann and J. Dainty, 130
- Metabolic Disorders, *Advances in*, ed. by R. Luft and K. Hall, Vol. 8 (Somatomedins and Some Other Growth Factors), 468
- Microbiology—1974, ed. by D. Schlesinger, 312
- Model Systems in Biological Psychiatry, ed. by D. J. Ingle and H. M. Shein, 471
- Modification of the Information Content of Plant Cells, ed. by R. Markham et al., 318
- Morphogenesis and Malformation of Face and Brain, ed. by D. Bergsma, 435
- Mouse Hepatic Neoplasia, ed. by W. H. Butler and P. M. Newberne, 567
- Muscular Dystrophy, Exploratory Concepts in, II (Control Mechanisms in Development and Function of Muscle and Their Relationship to Muscular Dystrophy and Related Neuromuscular Diseases), ed. by A. T. Milhorat, 566
- Myriapoda, ed. by J. G. Blower, 147
- Negative Strand Viruses, ed. by B. W. J. Mahy and R. D. Barry, Vols. 1, 2, 311
- Neural and Endocrine Aspects of Behaviour in Birds, ed. by P. Wright et al., 554
- Neurosciences: Paths of Discovery, the, ed. by F. G. Worden et al., 553
- Neurosciences Research Symposium Summaries, ed. by F. O. Schmitt et al., Vol. 7, 186

- Neurosecretion—the Final Neuroendocrine Pathway, ed. by F. Knowles and L. Vollrath, 181
- Nonionizing Radiation, Fundamental and Applied Aspects of, ed. by S. M. Michaelson et al., 474
- Nutritional Improvement of Food Legumes by Breeding, ed. by M. Milner, 192
- Olfaction and Taste V, ed. by D. A. Denton and J. P. Coghlan, 460
- Opiate Receptor Mechanisms, by S. H. Snyder et al., 344
- Outcome of Severe Damage to the Central Nervous System, ed. by Ciba Foundation, 460
- Paleoanthropology, ed. by R. H. Tuttle, 558
- Parent-Infant Interaction, ed. by Ciba Foundation, 559
- Pathology of Fishes, the, ed. by W. E. Ribelin and G. Migaki, 150
- Peripheral Arterial Chemoreceptors, the, ed. by M. J. Purves, 557
- Photoreceptor Optics, ed. by A. W. Snyder and R. Menzel, 459
- Physics and Mathematics of the Nervous System, ed. by M. Conrad et al., 186
- Physiological Basis of Starling's Law of the Heart, the, ed. by Ciba Foundation, 471
- Physiology and Pathology of Human Aging, the, ed. by R. Goldman and M. Rockstein, 558
- Plant Carbohydrate Biochemistry, ed. by J. B. Pridham, 127
- Plant Physiology, Historical and Current Aspects of (A Symposium Honoring F. C. Steward), ed. by P. J. Davies, 438
- Poisoned Patient, the, ed. by Ciba Foundation, 202
- Productivity of World Ecosystems, ed. by National Academy of Sciences (U.S.), 167
- Prosimian Biology, ed. by R. D. Martin et al., 330
- Proteins of Iron Storage and Transport in Biochemistry and Medicine, ed. by R. R. Crichton, 465
- Radiation Research, ed. by O. F. Nygaard et al., 568
- Recombination, Mechanisms in, ed. by R. F. Grell, 118
- Reproductive Endocrinology, Recent Progress in, ed. by P. G. Crosignani and V. H. T. James, 309
- Rice in Asia, ed. by the Association of Japanese Agricultural Scientific Societies, 317
- RNA, Processing of, ed. by J. J. Dunn, 428
- RNA in Reproduction and Development, Role of, ed. by M. C. Niu and S. J. Segal, 121
- Roots, the Development and Function of, ed. by J. G. Torrey and D. T. Clarkson, 538
- Schizophrenia and Schizophrenia-Like Psychoses, Biological Mechanisms of, ed. by H. Mitsuda and T. Fukuda, 564
- Secretory Mechanisms of Exocrine Glands, ed. by N. A. Thorn and O. H. Petersen, 143
- Sickle Cell Anemia and Other Hemoglobinopathies, ed. by R. D. Levere, 200
- Size at Birth, ed. by Ciba Foundation, 310
- Soil Zoology, Progress in, ed. by J. Vaněk, 447
- Sound Reception in Mammals, ed. by R. J. Bench et al., 555
- Spores VI, ed. by P. Gerhardt et al., 313
- Structure-Activity Relationships of Protein and Polypeptide Hormones, ed. by M. Margoulies and F. C. Greenwood, 466
- Structure and Function of Chromatin, the, ed. by Ciba Foundation, 111
- Study of Time II, the, ed. by J. T. Fraser and N. Lawrence, 518
- Survival in Toxic Environments, ed. by M. A. Q. Khan and J. P. Dederka, Jr., 141
- Swimming and Flying in Nature, Vol. 1, ed. by T. Y.-T. Wu et al., 568
- Systems Analysis and Simulation in Ecology, ed. by B. C. Patten, Vol. 3, 456
- Thymic Hormones, Biological Activity of, ed. by D. W. Van Bekkum, 466
- Trauma, ed. by S. B. Day, 470
- Trilobita, Trilobitoidea and Merostomata, Evolution and Morphology of, ed. by A. Martinsson, 425
- Tropical Diseases of Legumes, ed. by J. Bird and K. Maramorosch, 535
- Végétation des dunes maritimes, la, ed. by J. M. Gehu, 534
- Verhandlungen der Gesellschaft für Ökologie Erlangen—1974, ed. by P. Muller, 335

- Vestibular System, the, ed. by R. F. Naunton, 555
- Writing Scientific Papers in English, by M. O'Connor and F. P. Woodford, 208
- Systematic Dissections of Vertebrates, by G. C. Kent, 140
- Szalay, F. S. (ed.), Approaches to Primate Paleobiology, 104

T

- Tactics, life-history, a review of the ideas, *article*, 3
- Tafelwerk zur Pflanzensystematik, ed. by J. Graf, 535
- Tannenbaum, S. R., and D. I. C. Wang (eds.), Single-Cell Protein II, 315
- Tannenbaum, S. R., et al. (eds.), The Economics, Marketing, and Technology of Fish Protein Concentrate, 360
- Taylor, H., The Lobster: Its Life Cycle, 295
- Teaching-Learning Guide for Odum's *Fundamentals of Ecology*, by R. L. Kroodsma, 157
- Terrestrial Environments, by J. L. Cloudsley-Thompson, 167
- Tertiary Faunas, by A. M. Davies (rev. by F. E. Eames and R. J. G. Savage), Vol. 1 (The Composition of Tertiary Faunas), Vol. 2 (The Sequence of Tertiary Faunas), 522
- Thayer, D. W. (ed.), Microbial Interaction with the Physical Environment, 437
- Theodor, O., Fauna Palaestina: Insecta I (Diptera Pupipara), 543
- Theory of Evolution, the, by J. Maynard Smith, 3rd ed., 432
- Theory of Molecular Relaxation, by F. K. Fong, 429
- There Really Was a Dodo, by E. S. Gordon and B. L. Gordon, 102
- Thermal Structure of the Indian Ocean, the, by J. G. Colborn, 453
- Thermoregulation, lizard, costs and benefits of, *article*, 363
- Thirty-Six Lectures in Biology, by S. E. Luria, 99
- Thompson, R. F., Introduction to Physiological Psychology, 344
- Thorn, N. A., and O. H. Petersen (eds.), Secretory Mechanisms of Exocrine Glands, 143
- Through the Molecular Maze, by A. Breed et al., 427
- Thunberg, C. P., Flora Japonica, 291
- Tien, H. T., Bilayer Lipid Membranes (BLM), 109
- Tinklenberg, J. R. (ed.), Marijuana and Health Hazards, 563
- Tixier-Vidal, A., and M. G. Farquhar (eds.), The Anterior Pituitary, 142
- Tonomura, Y., Muscle Proteins, Muscle Contraction and Cation Transport, 145
- Tooze, J., and J. Sambrook (eds.), Selected Papers in Tumor Virology, 194
- Torpin, R., Reproduction in Man and His Ancestors—for 700 Million Years, 531
- Torrey, J. G., and D. T. Clarkson (eds.), The Development and Function of Roots, 538
- Trace Substances and Health, ed. by P. M. Newberne, 564
- Traité de zoologie: anatomie, systématique, biologie, ed. by P.-P. Grassé, Vol. 3 (Spongiaires), Pt. 1 (Anatomie, physiologie, systématique, écologie), 138
- Transducers for Biomedical Measurements: Principles and Applications, by R. S. C. Cobbold, 205
- Transport Phenomena in Medicine and Biology, by M. M.-S. Lih, 199
- Trappl, R., and F. de P. Hanika (eds.), Progress in Cybernetics and Systems Research, Vol. 1 (General Systems, Engineering Systems, Biocybernetics and Neural Systems), Vol. 2 (Socio-Economic Systems, Cybernetics of Cognition and Learning Systems Education, Cybernetics in Organization and Management, and Special Aspects), 354
- Treat, A. E., Mites of Moths and Butterflies, 449
- Treherne, J. E. (ed.), Insect Neurobiology, 554
- Treherne, J. W., et al. (eds.), Advances in Insect Physiology, Vol. 11, 449
- Trilobites, by R. Levi-Setti, 296
- Trueman, E. R., The Locomotion of Soft-Bodied Animals, 452
- Turk, A., et al., Environmental Science, 159
- Turk, J., et al., Ecosystems, Energy, Population, 335
- TURNER, J. R. G., AND B. GLASS, Genetics, Intelligence, and Society, *commentary on Heredity and Society*, ed. by A. S. Baer; The Structure of Human Populations, ed. by G. A. Harrison and A. J. Boyce; The Genetics of Human Populations, by L. L. Cavalli-Sforza and W. F. Bodmer; and Race Differences in Intelligence, by J. C. Loehlin et al., 85

Tussing, A. R., et al. (eds.), *Alaska Fisheries Policy*, 169

Tuttle, R. H. (ed.), *Paleoanthropology*, 558

U

Uniqueness and Diversity in Human Evolution: Morphometric Studies of Australopithecines, by C. E. Oxnard, 187

Upland Kenya Wild Flowers, by A. D. Q. Agnew, 135

Urohyal of Fishes, the, by T. Kusaka, 151

Usdin, E. (ed.), *Psychopharmacology Communications*, Vol. 1, No. 1—1975, 463

Usherwood, P. N. R. (ed.), *Insect Muscle*, 147

Uttal, W. R., *An Autocorrelation Theory of Form Detection*, 461

—, *Cellular Neurophysiology and Integration: An Interpretive Introduction*, 461

Utton, A. E., and D. H. Henning (eds.), *Interdisciplinary Environmental Approaches*, 159

V

Vallance-Owen, J. (ed.), *Diabetes*, 566

Van Bekkum, D. W. (ed.), *The Biological Activity of Thymic Hormones*, 466

Van Der Plank, J. E., *Principles of Plant Infection*, 130

Van der Kloot, W. et al., (eds.), *Readings in Behavior*, 175

van Dobben, W. H., and R. H. Lowe-McConnell (eds.), *Unifying Concepts in Ecology*, 549

Van Landingham, S. L., *Catalogue of the Fossil and Recent Genera and Species of Diatoms and Their Synonyms*, Pt. 5 (Navicula), 426

van Oss, C. J., *Phagocytic Engulfment and Cell Adhesiveness As Cellular Surface Phenomena*, 525

Van Tyne, J., and A. J. Berger, *Fundamentals of Ornithology*, 2nd ed., 544

Van Wagtendonk, W. J. (ed.), *Paramecium*, 145

Vanek, J. (ed.), *Progress in Soil Zoology*, 447

Variability of Mammals, by A. V. Yablokov, 433

Vascular Plant Systematics, by A. E. Radford et al., 126

Vascularization and Tissue Differentiation, by F. A. Kiss, 144

Vaughan, J., *The Physiology of Bone*, 2nd ed., 547

Venkataraman, G. S., et al., *Algae: Form and Function*, 131

Vergleichende Entwicklungsgeschichte der Tiere, by V. Schwartz, 120

Vernadakis, A., and N. Weiner (eds.), *Drugs and the Developing Brain*, 179

Vertebrate Biology, 4th ed., by R. T. Orr, 546

Vertebrates (A Laboratory Text), ed. by N. K. Wessells and E. M. Center, 447

Vink, A. P. A., *Land Use in Advancing Agriculture*, 338

Vinnikov, Ya. A., *Sensory Reception*, 178

Visual Psychophysics, ed. by D. Jameson and L. M. Hurvich, 346

Volpe, E. P., *Man, Nature, and Society*, 518

Vorontsov, N. N. (ed.), *Problems of Evolution*, Vols. 3, 4, 115

W

Wagner, R. P. (ed.), *Genes and Proteins*, 306

Wählin, Å., *Intensive Care*, 196

Wainwright, S. A., et al., *Mechanical Design in Organisms*, 567

Walker, B., *Oddball Fishes and Other Strange Creatures of the Deep*, 447

Walker, E. M., and P. S. Corbet, *The Odonata of Canada and Alaska*, Vol. 3, Pt. 3 (The Anisoptera—Three Families), 148

Walker, E. P. et al., *Mammals of the World*, 3rd ed. (rev. by J. L. Paradiso), 154

Walker, J. B., *The Ixodid Ticks of Kenya*, 326

Walker, J. R. L., *The Biology of Plant Phenolics*, 439

Wall, P. D. (ed.), *Pain*, Vol. 1, No. 1, 196

Wallace, G. J., *An Introduction to Ornithology*, 3rd ed., 152

Walters, K., *Rheometry*, 473

Wang, C. H., et al., *Radiotracer Methodology in the Biological, Environmental, and Physical Sciences*, 474

War, primitive, a review of, *article*, 385

Warren, J. V. (ed.), *Cardiovascular Physiology*, 204

Water Management and Agricultural Development: A Case Study of the Cuyo Region of Argentina, by K. D. Frederick, 561

Watkins, J. S., et al., *Our Geological Environment*, 103

Weber, D. J., and W. M. Hess (eds.), *The Fungal Spore*, 538

Weber, G. (ed.), *Advances in Enzyme Regulation*, Vol. 11, 198

- Weber, R. (ed.), *The Biochemistry of Animal Development*, Vol. 3 (Molecular Aspects of Animal Development), 119
- Weiss, D. W. (ed.), *Immunological Parameters of Host-Tumor Relationships*, Vol. 3, 193
- Weiss, K. M., and P. A. Ballonoff (eds.), *Demographic Genetics*, 529
- Weitz, S. (ed.), *Nonverbal Communication*, 190
- Welsh, S. L., *Anderson's Flora of Alaska and Adjacent Parts of Canada*, 134
- Welty, J. C., *The Life of Birds*, 2nd ed., 327
- Wessells, N. K., and E. M. Center (eds.), *Vertebrates*, 447
- WEST EBERHARD, M. J., *Born: Sociobiology*, *lead review of Sociobiology*, by E. O. Wilson, 89
- Wetzel, R. G., *Limnology*, 453
- Wheeler, A., *Fishes of the World*, 327
- White, D. C. S., and J. Thorsom, *The Kinetics of Muscle Contraction*, 524
- White, N. F. (ed.), *Ethology and Psychiatry*, 178
- White, W., Jr., *An Earthworm Is Born*, 519
- , *The Siamese Fighting Fish: Its Life Cycle*, 151
- White Cell, the, by M. J. Cline, 468
- Whittaker, R. H., *Communities and Ecosystems*, 2nd ed., 159
- Whittingham, C. P., *The Mechanism of Photosynthesis*, 322
- Wiegolaski, F. E. (ed.), *Fennoscandian Tundra Ecosystems*, Pt. 1 (Plants and Microorganisms), 549
- Wild Canids, the, ed. by M. W. Fox, 177
- Wild Cats of the World, by C. A. W. Guggisberg, 546
- Wild Plants in the City, by N. M. Page and R. E. Weaver, Jr., 321
- Wilhelm Pfeffer, by E. Bünning, 291
- Williams, R. C., and H. W. Fisher, *An Electron Micrographic Atlas of Viruses*, 124
- Williams, R. F., *The Shoot Apex and Leaf Growth*, 128
- Wilmore, J. H., and J. F. Keogh (eds.), *Exercise and Sport Sciences Reviews*, Vol. 3, 464
- Wilson, E. O., *Sociobiology*, *lead review*, 89
- Wind Birds, the, by P. Matthiessen, 153
- Wolke, R. L. (ed.), *Impact: Science on Society*, 168
- Wolken, J. J., *Photoprocesses, Photoreceptors, and Evolution*, 459
- Wonders of a Kelp Forest, by J. E. Brown, 425
- Wonders of Barnacles, by A. Ross and W. K. Emerson, 424
- Wonders of Frogs and Toads, by W. Blassingame, 295
- Wonders of Rattlesnakes, by G. E. Chace, 423
- Wonders of Sea Gulls, by E. A. Schreiber and R. W. Schreiber, 423
- Wonders of Wild Ducks, by T. D. Fegely, 296
- Woodland Ecology, by L. S. Minckler, 338
- Woodruff, A. W. (ed.), *Medicine in the Tropics*, 195
- Woods, A., *Pest Control: A Survey*, 162
- Worden, F. G., et al. (eds.), *The Neurosciences: Paths of Discovery*, 553
- World of Biology, the, by P. W. Davis and E. P. Solomon, 98
- World of the Wasp, the, by J. O. I. Spoczynska, 544
- World of the Woodlot, the, by T. D. Fegely, 161
- Worthington, E. B. (ed.), *The Evolution of IBP*, 357
- Wright, C. A. (ed.), *Biochemical and Immunological Taxonomy of Animals*, 139
- Wright, J. W., *Introduction to Forest Genetics*, 432
- Wright, P., et al. (eds.), *Neural and Endocrine Aspects of Behavior in Birds*, 554
- Wu, T. Y.-T., et al. (eds.), *Swimming and Flying in Nature*, Vol. 1, 568

X

- Xenopus*: The South African Clawed Frog, by E. M. Deuchar, 122

Y

- Yablokov, A. V., *Variability of Mammals*, 433
- Yorkshire Jurassic Flora IV (Ginkgoales and Czekanowskiales, the, by T. M. Harris et al., 105
- YOUNGER READER, the, *book reviews*, 102, 293, 422, 519
- Yudkin, M., and R. Offord, *Biochemistry*, 426

Z

- Zimmermann, U., and J. Dainty (eds.), *Membrane Transport in Plants*, 130
- ZOOLOGICAL SCIENCES, *book reviews*, 137, 324, 445, 539

THE QUARTERLY REVIEW OF BIOLOGY

FOUNDED IN 1926 BY RAYMOND PEARL

BENTLEY GLASS
Editor

ROSEMARY G. SMOLKER
Managing Editor

FRANK C. ERK
Editor

GAIRDNER MOMENT
Assistant Editor

GEORGE C. WILLIAMS
Assistant Editor

VOLUME 51
1976

Published by the
STONY BROOK FOUNDATION, INC.
for
STATE UNIVERSITY OF NEW YORK
AT STONY BROOK
© Copyright 1976
STONY BROOK FOUNDATION, INC.

Advisory Board

GEORGE W. BEADLE	University of Chicago
M. R. CARRIKER	College of Marine Studies, University of Delaware
PRESTON E. CLOUD, JR.	University of California at Santa Barbara
JAMES D. EBERT	Marine Biological Laboratory, Woods Hole
FRANK FENNER	Australian National University
JOEL W. HEDGPETH	Pacific Marine Station
J. ALLEN KEAST	Queen's University
E. C. OLSON	University of California at Los Angeles
THOMAS PARK	University of Chicago
JAMES H. SANG	The University of Sussex
C. H. SOUTHWICK	Johns Hopkins University
PAUL WEISS	The Rockefeller University
GEORGE M. WOODWELL	Marine Biological Laboratory, Woods Hole

CONTENTS

No. 1, March 1976

Anniversary Message	<i>The Editors</i>	1
Life-History Tactics: A Review of the Ideas	<i>Stephen C. Stearns</i>	3-47
The Regulation of Physiological Changes during Mammalian Aging	<i>Caleb E. Finch</i>	49-83
Commentary: Genetics, Intelligence, and Society	<i>John R. G. Turner and Bentley Glass</i>	85-88
New Biological Books		
Born: Sociobiology	<i>Mary Jane West Eberhard</i>	89-92
Reviews and Brief Notices		93-210

No. 2, June 1976

The Dance-Language Controversy	<i>James L. Gould</i>	211-244
Mammals in Which Females Are Larger than Males	<i>Katherine Ralls</i>	245-276
Commentary: Group Selection	<i>J. Maynard Smith</i>	277-283
New Biological Books		
Honest Jim?	<i>Jerry Donohue</i>	285-289
Reviews and Brief Notices		290-361

No. 3, September 1976

Costs and Benefits of Lizard Thermoregulation	<i>Raymond B. Huey and Montgomery Slatkin</i>	363-384
Resource Competition and Human Aggression, Part I: A Review of Primitive War	<i>William H. Durham</i>	385-415
New Biological Books		
The Cats in Zanzibar	<i>Michael Levandowsky</i>	417-419
Reviews and Brief Notices		420-475

No. 4, December 1976

Hibernation and Circannual Rhythms of Food Consumption in Marmots and Ground Squirrels	<i>David E. Davis</i>	477-514
New Biological Books		
Reviews and Brief Notices		515-569
Index to Volume 51		571-600



